

Infrastructure Plan Sheets

Downtown West

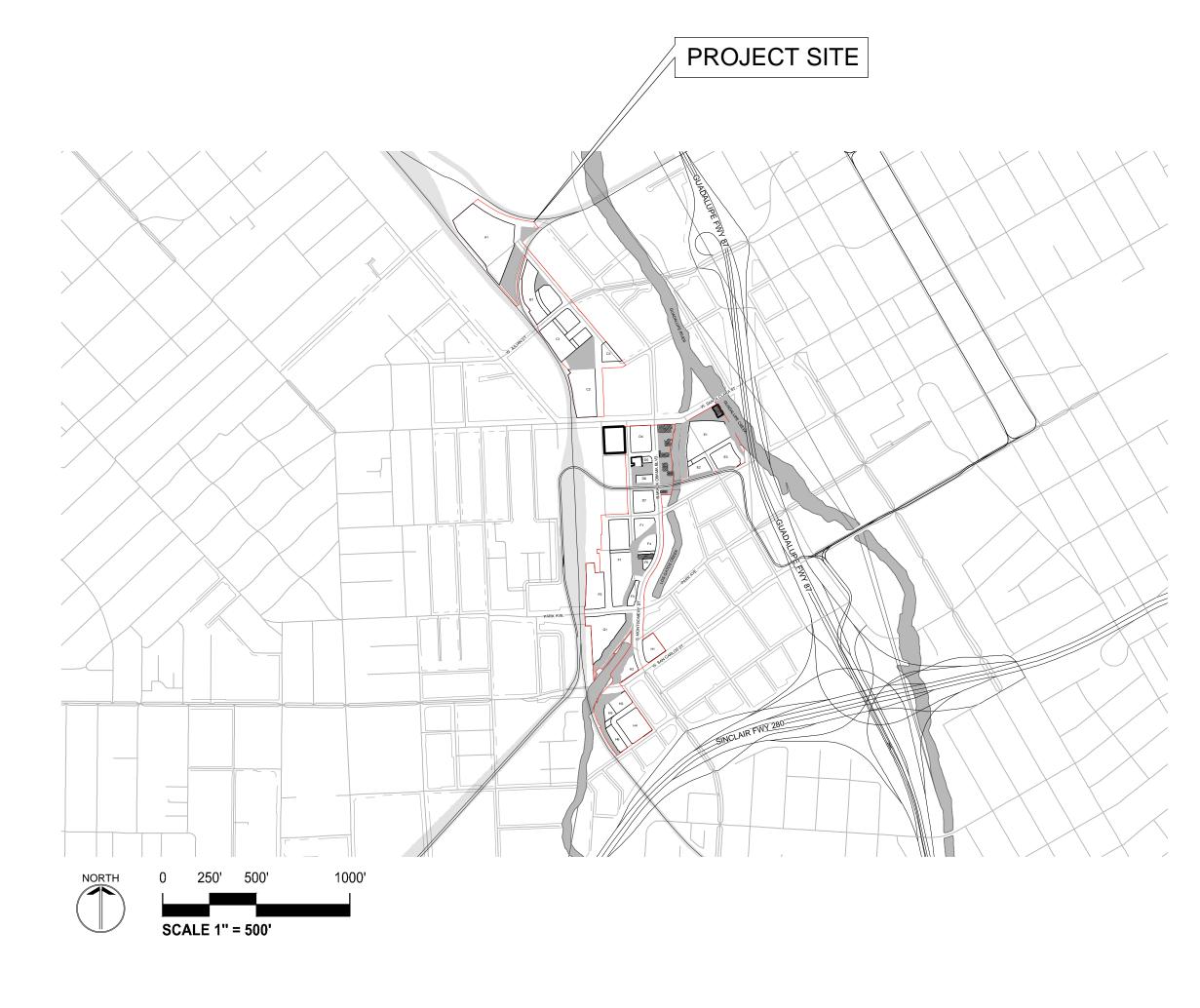
San Joyé, California

GENERAL NOTES

- 1. THESE INFRASTRUCTURE PLAN SHEETS ARE CONCEPTUAL IN NATURE AND DESCRIBE ANTICIPATED FLOODPLAINS, GRADING DESIGN, UTILITY DESIGN, AND STORMWATER IMPROVEMENTS. FINAL PLANS WILL BE SUBMITTED AND EVALUATED AS PART OF 100% TRACT IMPROVEMENT PLANS.
- 2. EXISTING TOPOGRAPHIC INFORMATION SHOWN ON THESE PLANS IS BASED ON SURVEY PERFORMED BY HMH ENGINEERS UNDER THE DIRECTION OF TRACY GIORGETTI, LS FROM JANUARY 2020 TO JULY 2020. BASIS OF BEARINGS: THE CALCULATED BEARING OF SOUTH 02° 43' 35" WEST TAKEN BETWEEN THE RECORD POSITION OF GPS CONTROL POINT 2218 AND GPS CONTROL POINT 1049, AS SHOWN ON THAT CERTAIN RECORD OF SURVEY FILED FOR RECORD ON JUNE 21. 1996, IN BOOK 677 OF MAPS AT PAGE 54, OFFICIAL RECORDS OF SANTA CLARA COUNTY WAS TAKEN AS THE BASIS FOR ALL BEARINGS SHOWN HEREON. BENCHMARK: SCVWD BM365 = 83.71', NORTH AMERICAN VERTICAL DATUM OF 1988, DATE ADJUSTED MARCH 14, 2017, VALLEY TRANSPORTATION AGENCY'S ALUMINUM DISK (VTA-225) ON TOP AND AT MID CONCRETE SIDEWALK; 3.1 FEET SOUTH FROM FACE OF CURB; 12 FEET WEST FROM THE SOUTHEAST CORNER OF NEW JULIAN STREET BRIDGE OVER GUADALUPE RIVER; BETWEEN HIGHWAY 87 AND AUTUMN STREET. CITY OF SAN JOSE. GRADES ENCOUNTERED ON-SITE MAY VARY FROM THOSE SHOWN. CONTRACTOR SHALL REVIEW THE PLANS AND SPECIFICATIONS AND CONDUCT FIELD INVESTIGATIONS TO VERIFY EXISTING CONDITIONS AT THE PROJECT SITE.
- 3. THIS TOPOGRAPHIC SURVEY IS NOT MEANT TO BE A FULL CATALOG OF EXISTING CONDITIONS. INFORMATION REGARDING EXISTING SURFACE OR SUBSURFACE IMPROVEMENTS AND UTILITIES SHOWN ON THESE PLANS REFLECTS INCOMPLETE AVAILABLE INFORMATION AS OF THE DATE OF DESIGN. CONTRACTOR SHALL CONDUCT FIELD INVESTIGATIONS AS REQUIRED TO VERIFY THE LOCATION AND ELEVATION OF EXISTING SUBSURFACE IMPROVEMENTS AND UTILITIES (WHETHER SHOWN ON THESE PLANS OR NOT) PRIOR TO THE COMMENCEMENT OF WORK.
- 4. THE DESIGN SHOWN IN THESE DRAWINGS IS BASED UPON STANDARDS AS PROVIDED IN THE DOWNTOWN WEST IMPROVEMENT STANDARDS.

UNAUTHORIZED CHANGE AND USE

- 1. SHERWOOD DESIGN ENGINEERS, LTD. SHALL NOT BE RESPONSIBLE FOR CONSTRUCTION MEANS, METHODS, TECHNIQUES, OR PROCEDURES UTILIZED BY THE CONTRACTOR, FOR THE SAFETY OF THE PUBLIC OR CONTRACTOR'S EMPLOYEES, OR FOR THE FAILURE OF THE CONTRACTOR TO CARRY OUT THE WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
- 2. THE CIVIL DESIGN ENGINEER PREPARING THESE PLANS WILL NOT BE RESPONSIBLE FOR, OR LIABLE FOR, UNAUTHORIZED CHANGES TO OR USES OF THESE PLANS. CHANGES TO THE PLANS MUST BE IN WRITING AND MUST BE APPROVED BY THE PREPARER OR THESE PLANS. ANY MODIFICATIONS TO THIS DOCUMENT, WITHOUT THE WRITTEN PERMISSION OF SHERWOOD DESIGN ENGINEERS, LTD., SHALL RENDER THE PLANS INVALID AND UNUSABLE.
- NO PART OF THIS DOCUMENT MAY BE REPRODUCED, STORED IN A RETRIEVAL SYSTEM, OR TRANSMITTED IN ANY FORM OR BY ANY MEANS OF ELECTRONIC, MECHANICAL, PHOTOCOPYING, RECORDING, OR OTHERWISE WITHOUT THE PRIOR WRITTEN PERMISSION OF SHERWOOD DESIGN ENGINEERS, LTD., EXCEPT THAT ANY REGULATORY AUTHORITY MAY REPRODUCE AND TRANSMIT COPIES, AS REQUIRED, IN CONJUNCTION WITH PERFORMANCE OF OFFICIAL BUSINESS UNDER ITS JURISDICTION.



SHEET INDEX

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| C2.0 | GRADING PLAN KEYMAP | JT-B.1 | JOINT TRENCH TITLE SHEET |
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| C2.2 | GRADING PLAN | JT-B.3 | JOINT TRENCH INTENT |
| C2.3 | GRADING PLAN | JT-B.4 | JOINT TRENCH INTENT |
| C2.4 | GRADING PLAN | JT-B.5 | JOINT TRENCH INTENT |
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| C5.5 | CITY OF SAN JOSE DETAILS | | |

INFRASTRUCTURE PLANS

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CAD DWG FILE: C-01 COVER.DWG
DESIGNED BY: AG
DRAWN BY: CQ

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CHECKED BY: BB

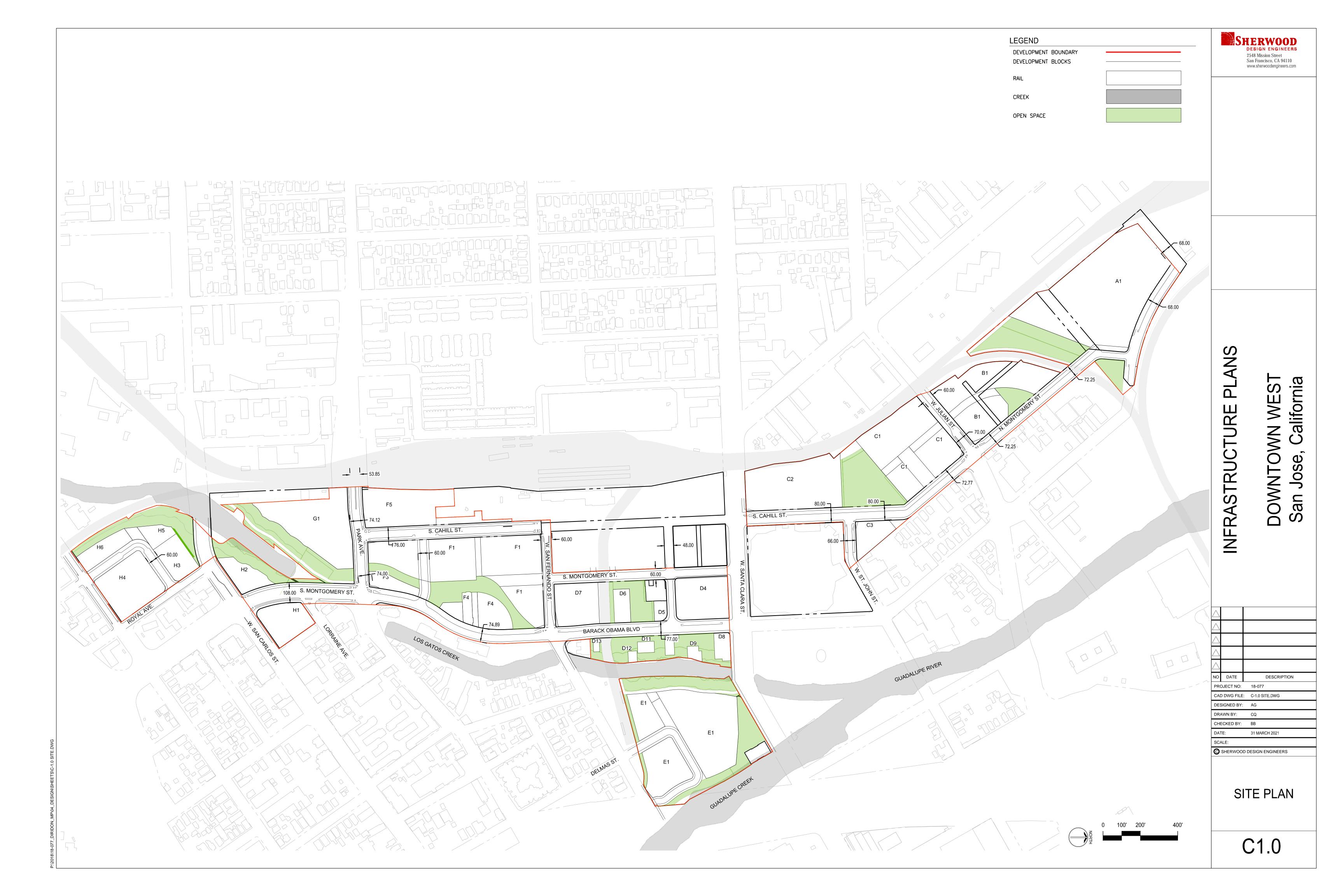
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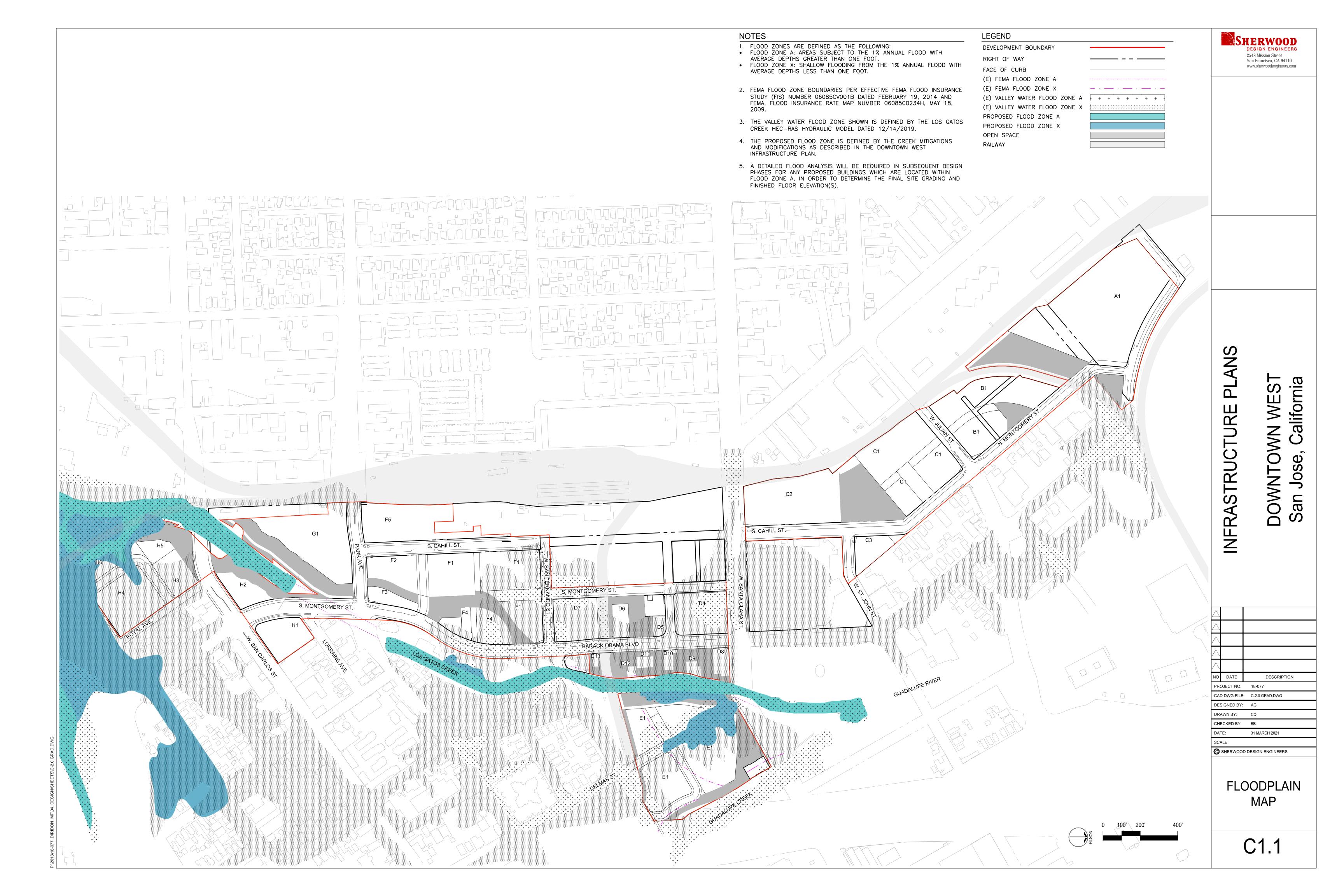
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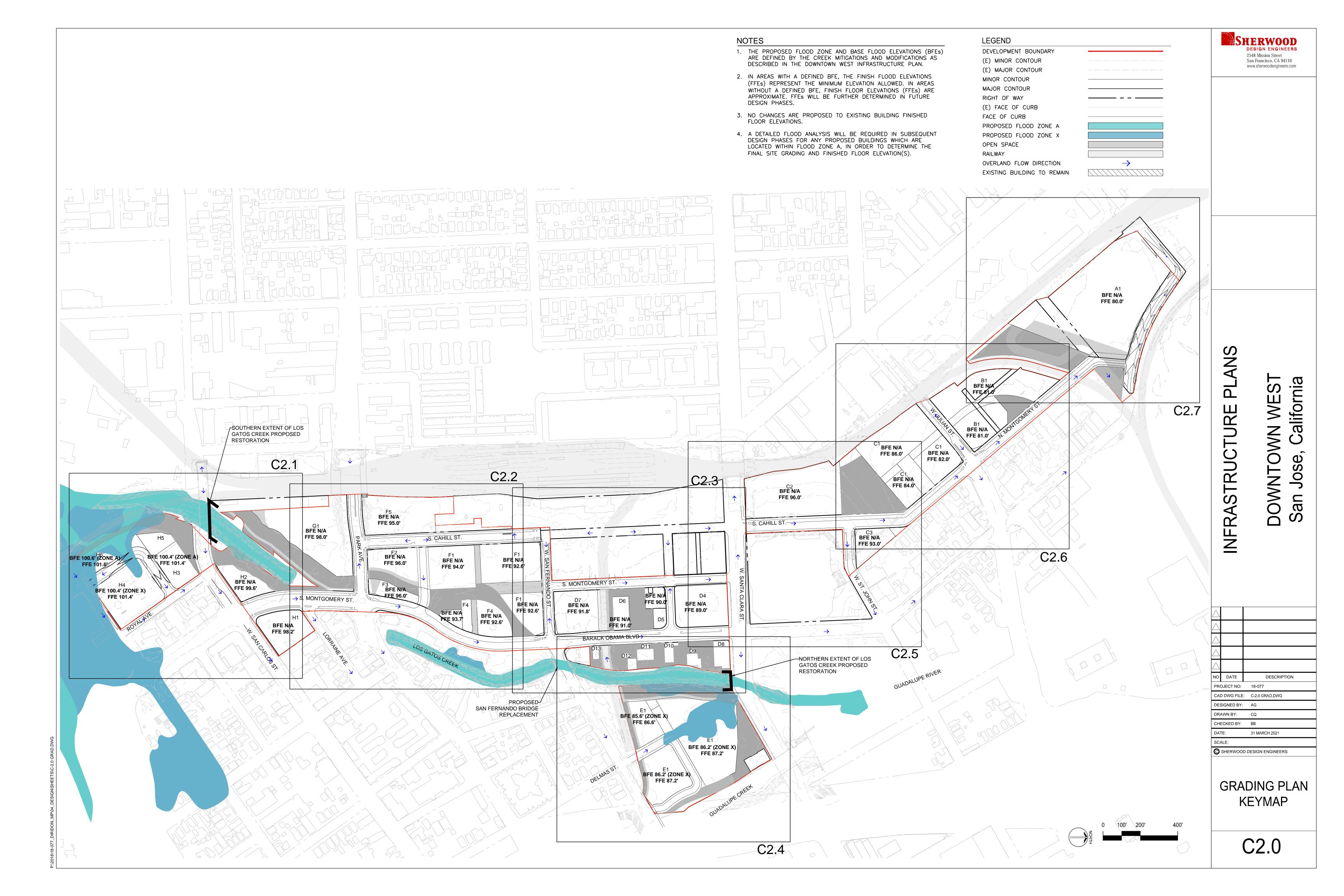
SHERWOOD DESIGN ENGINEERS

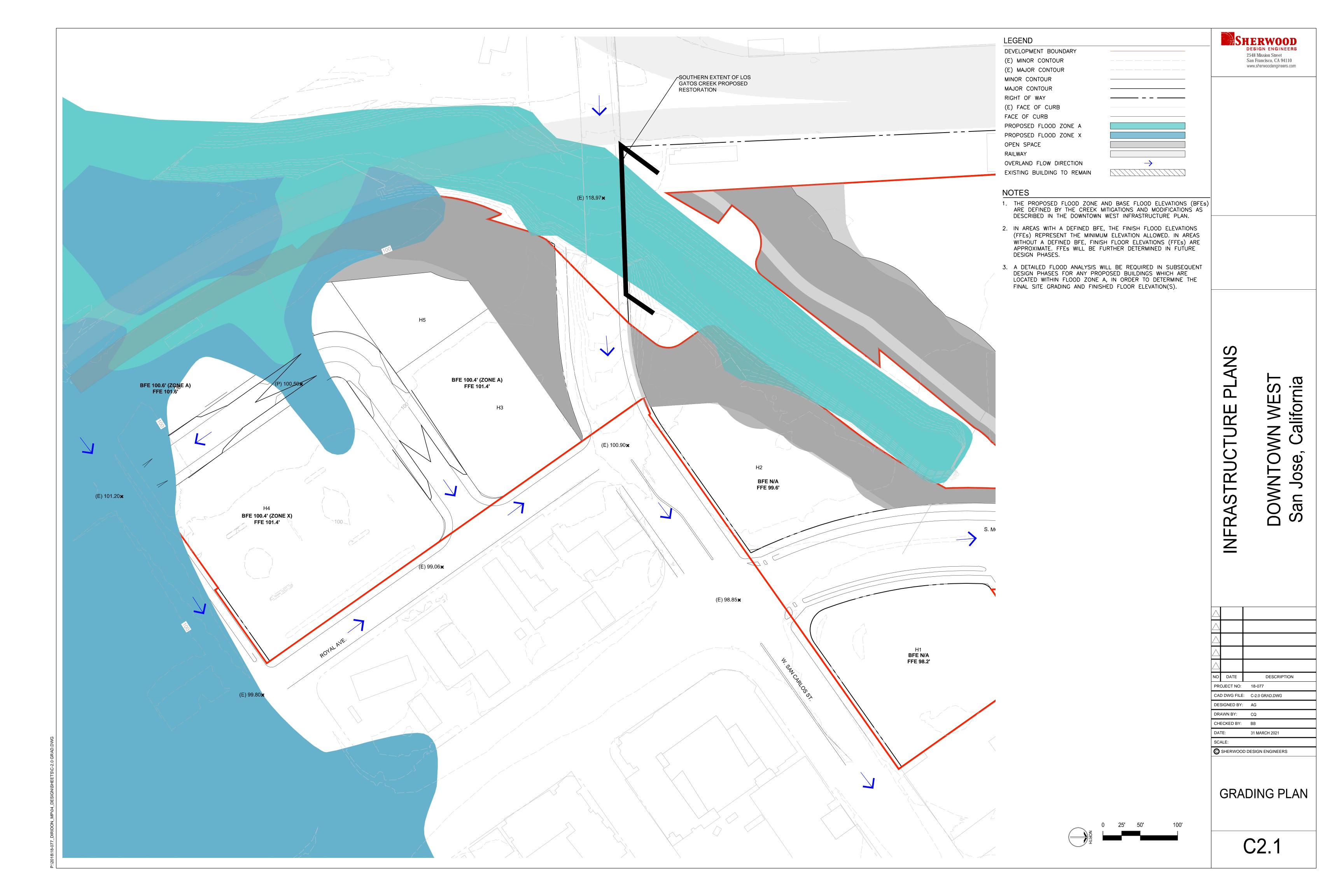
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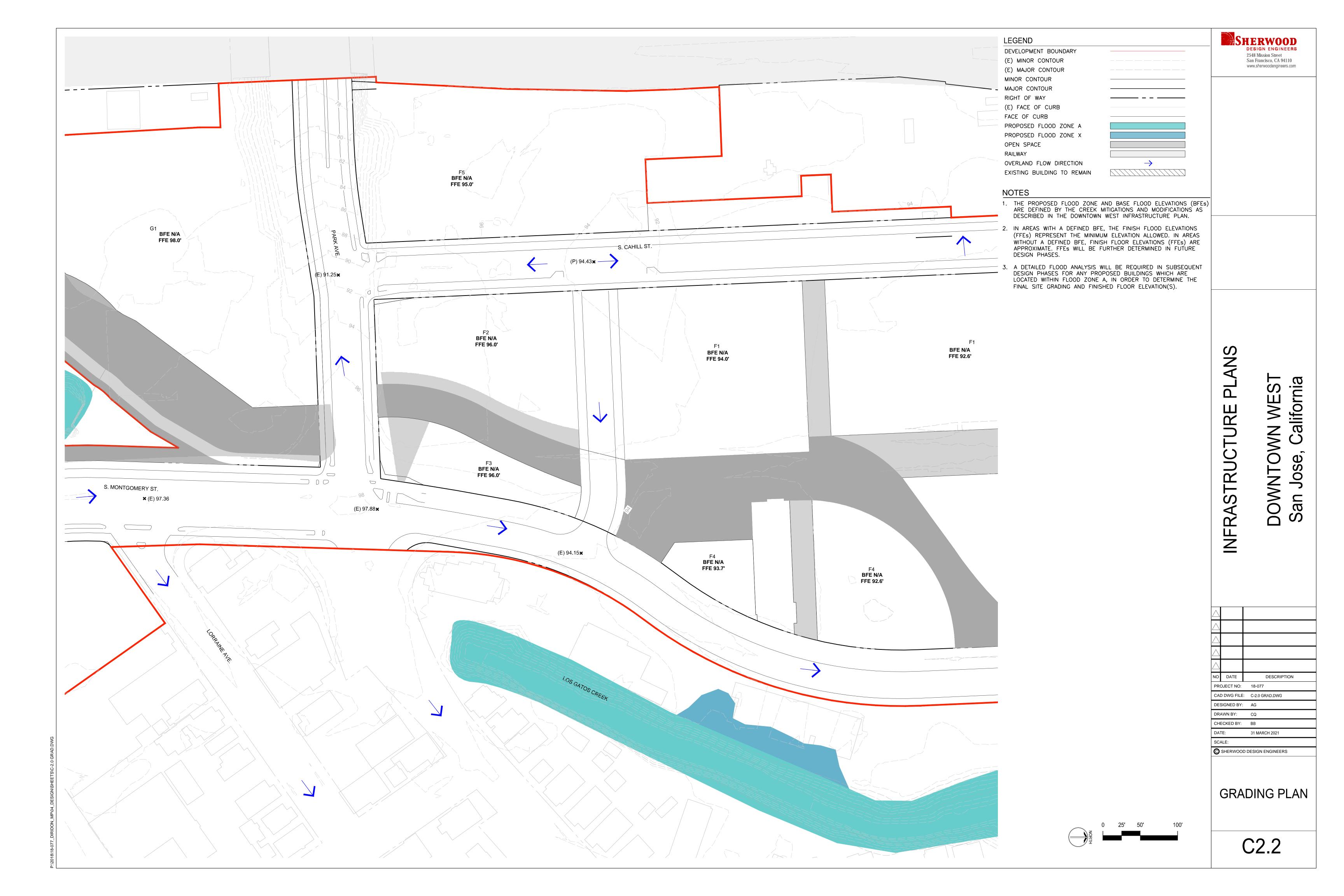
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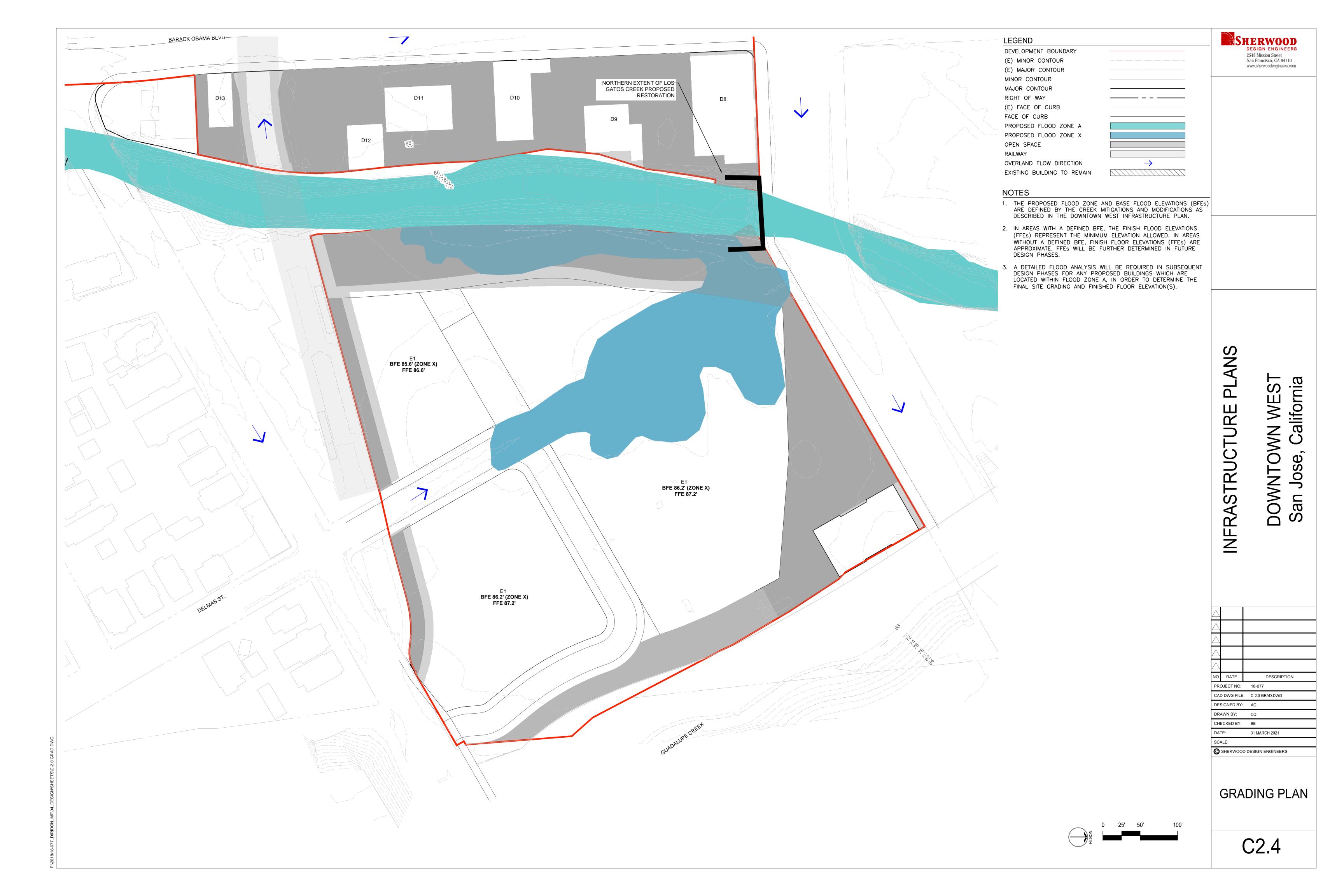


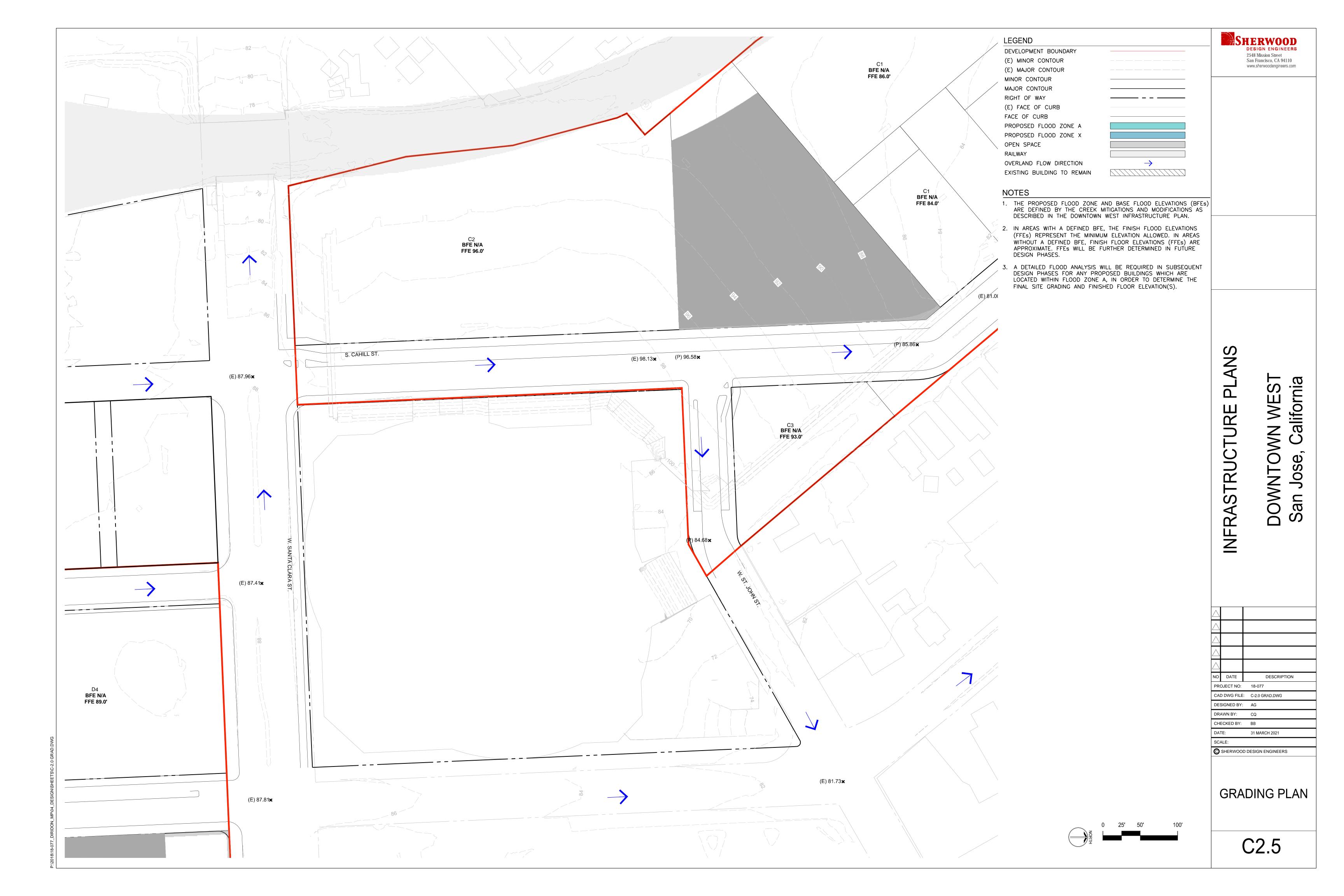


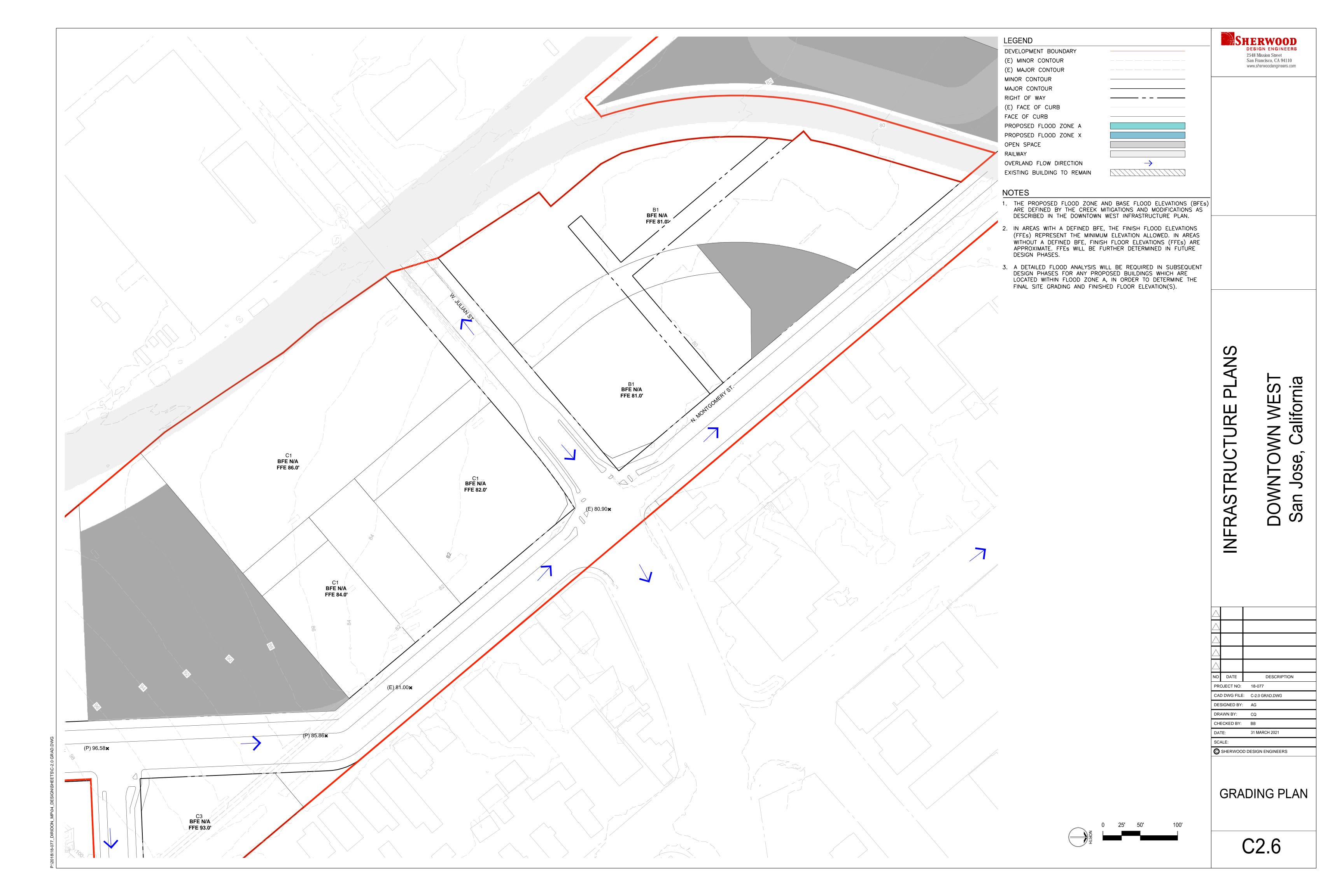




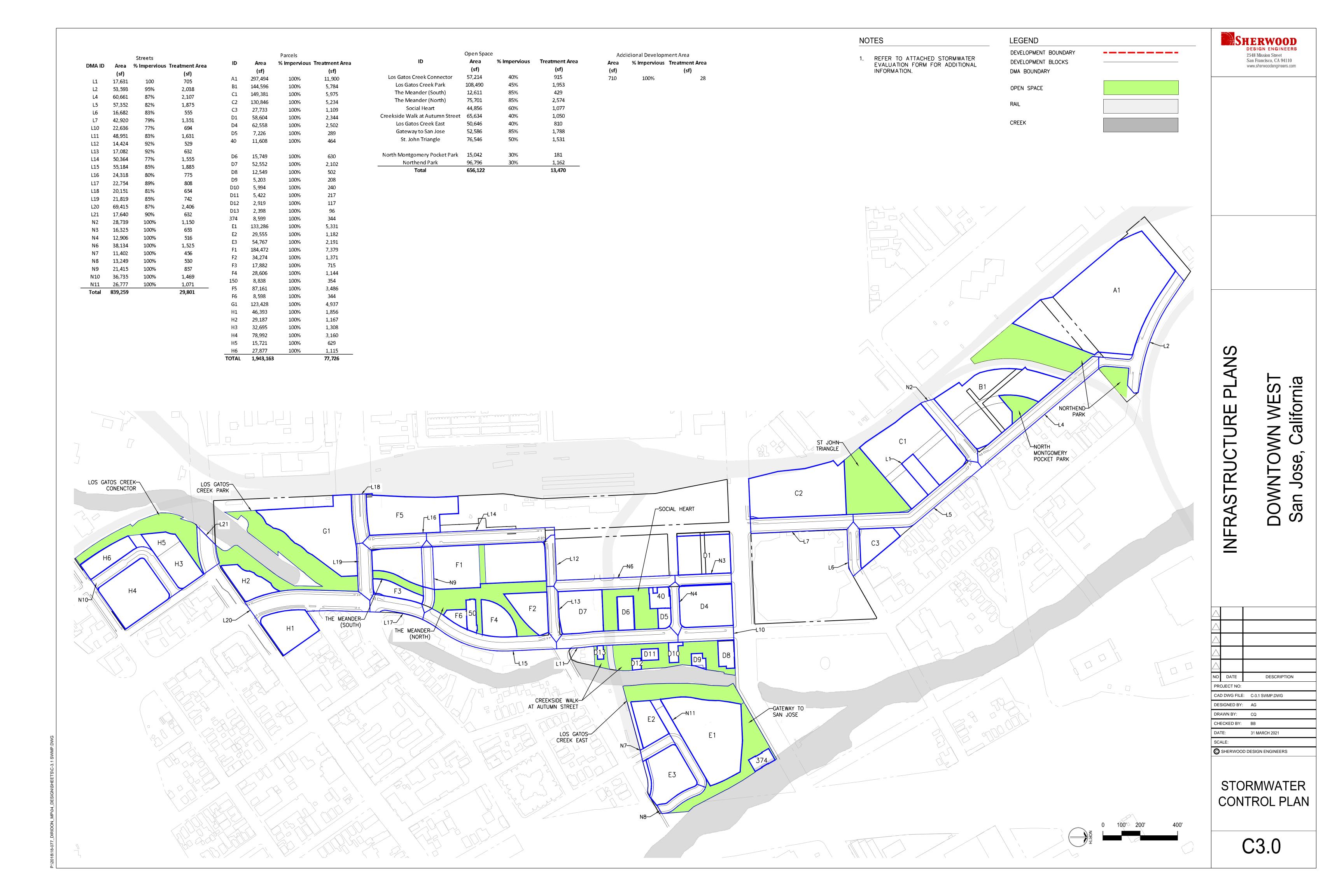


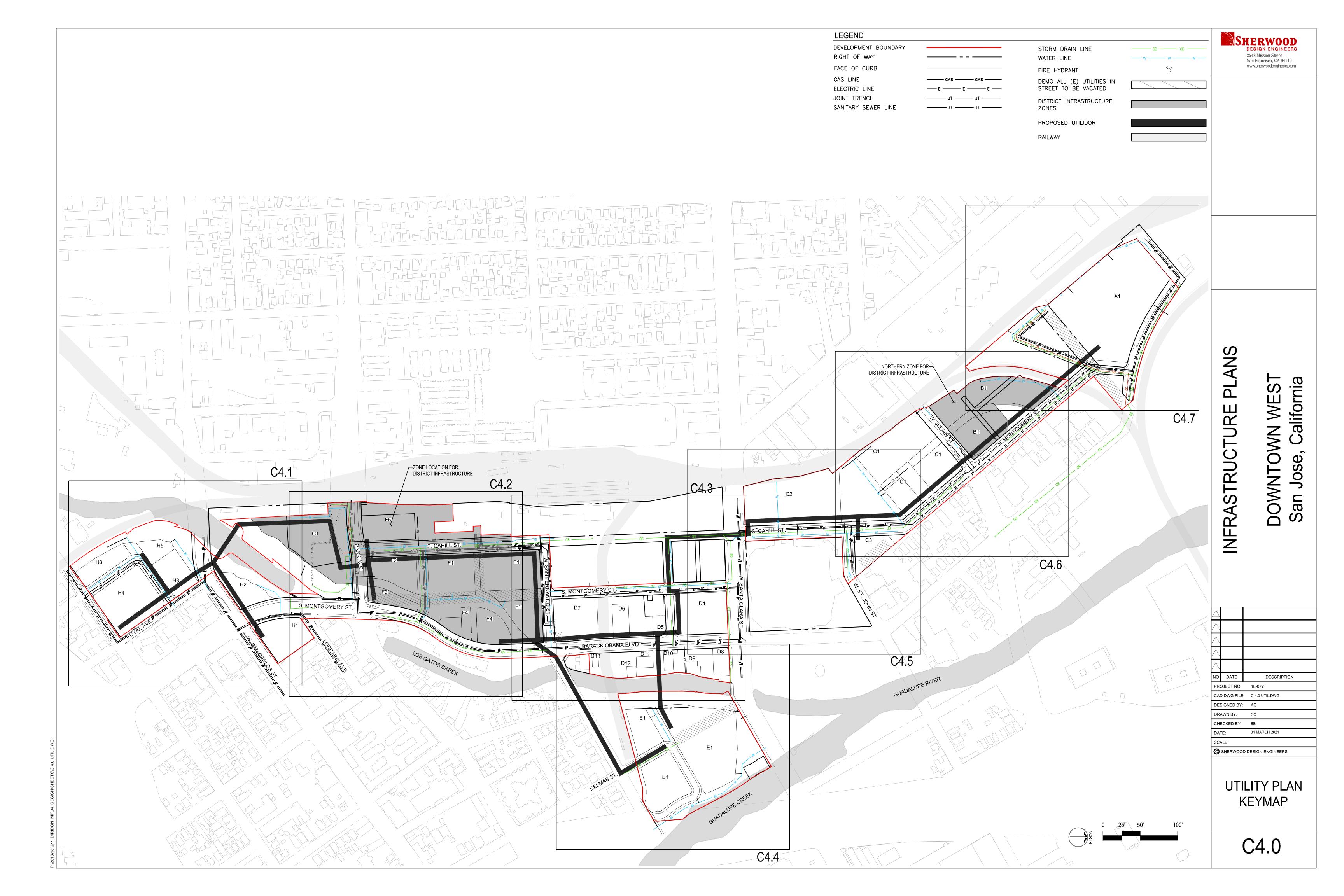


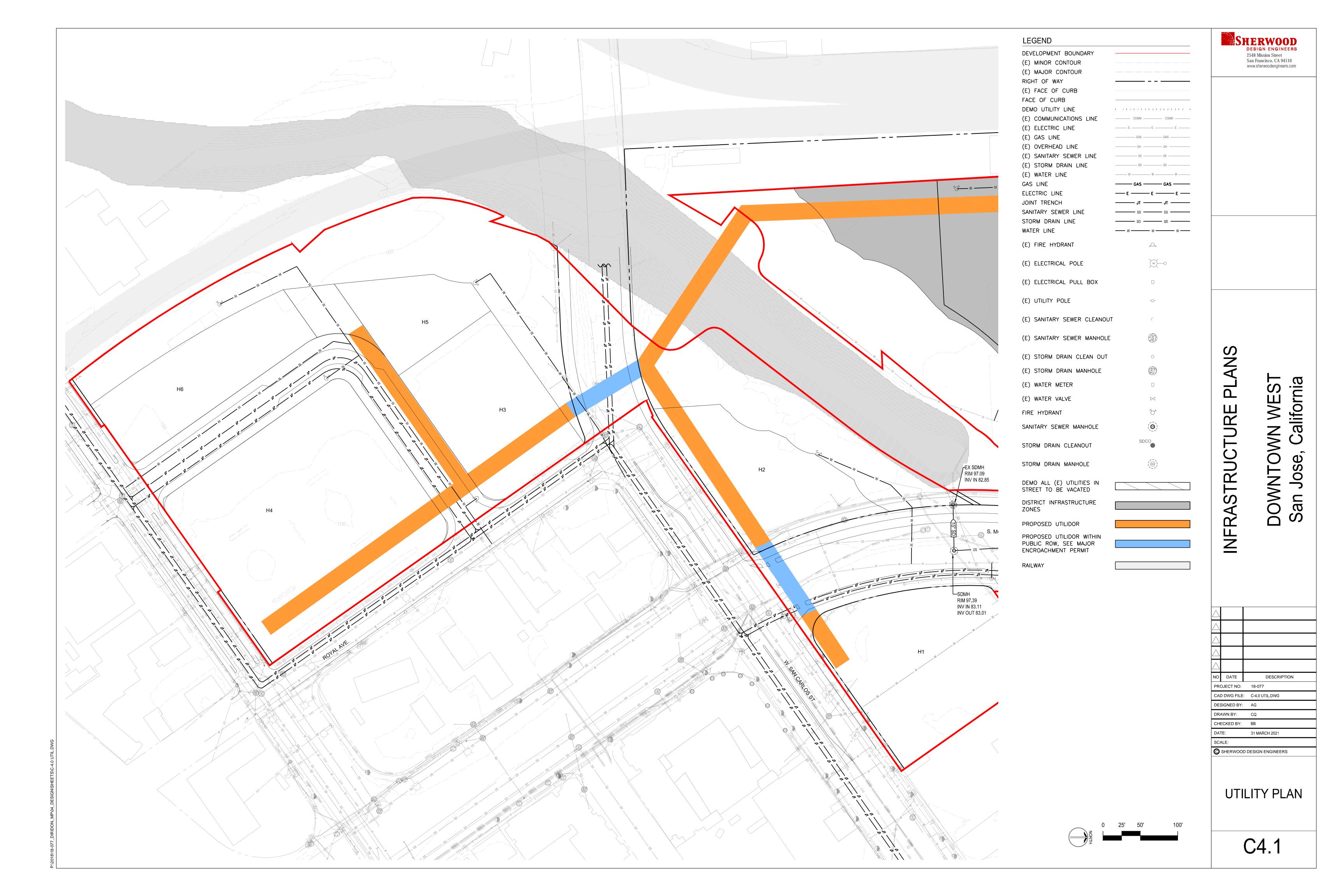


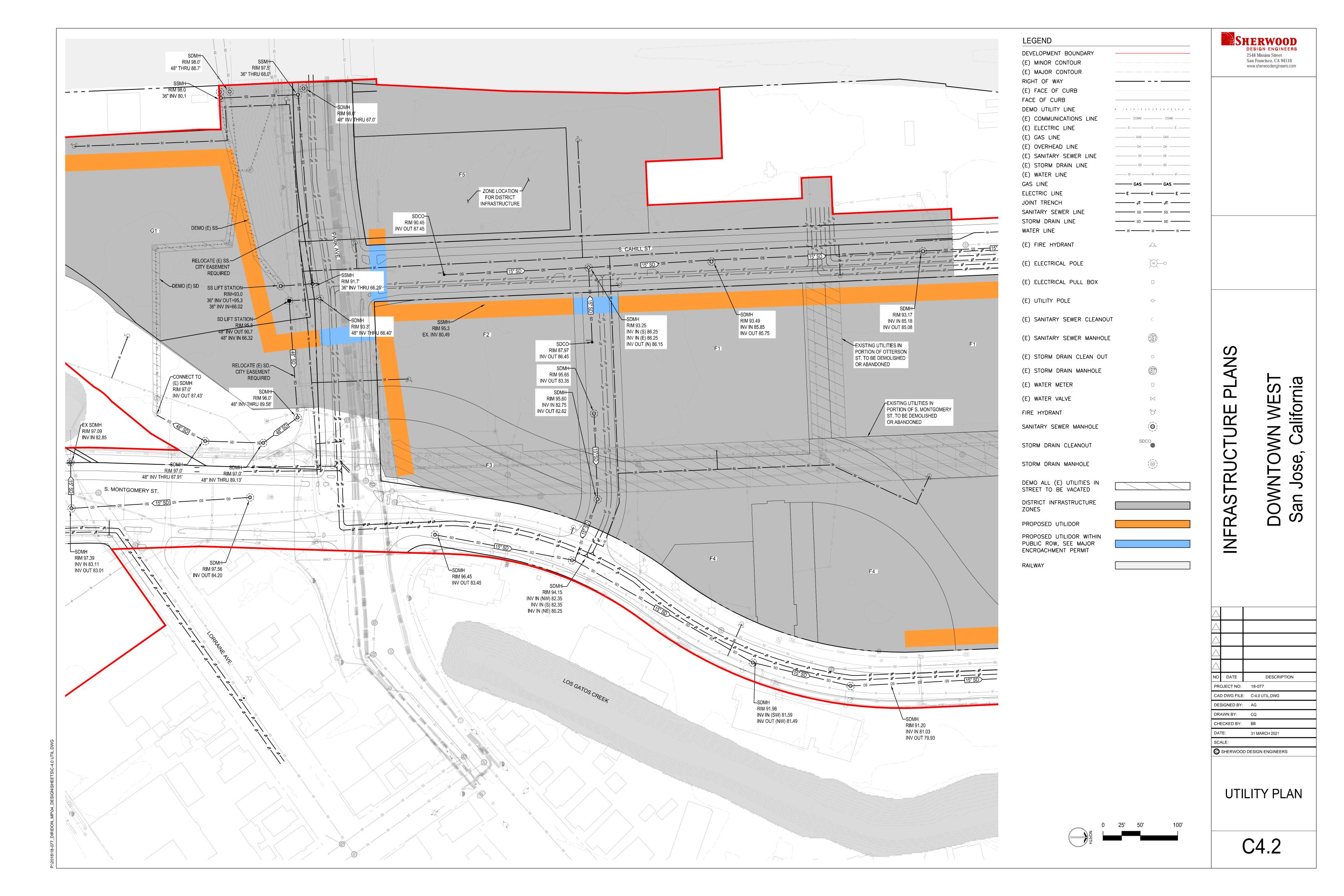


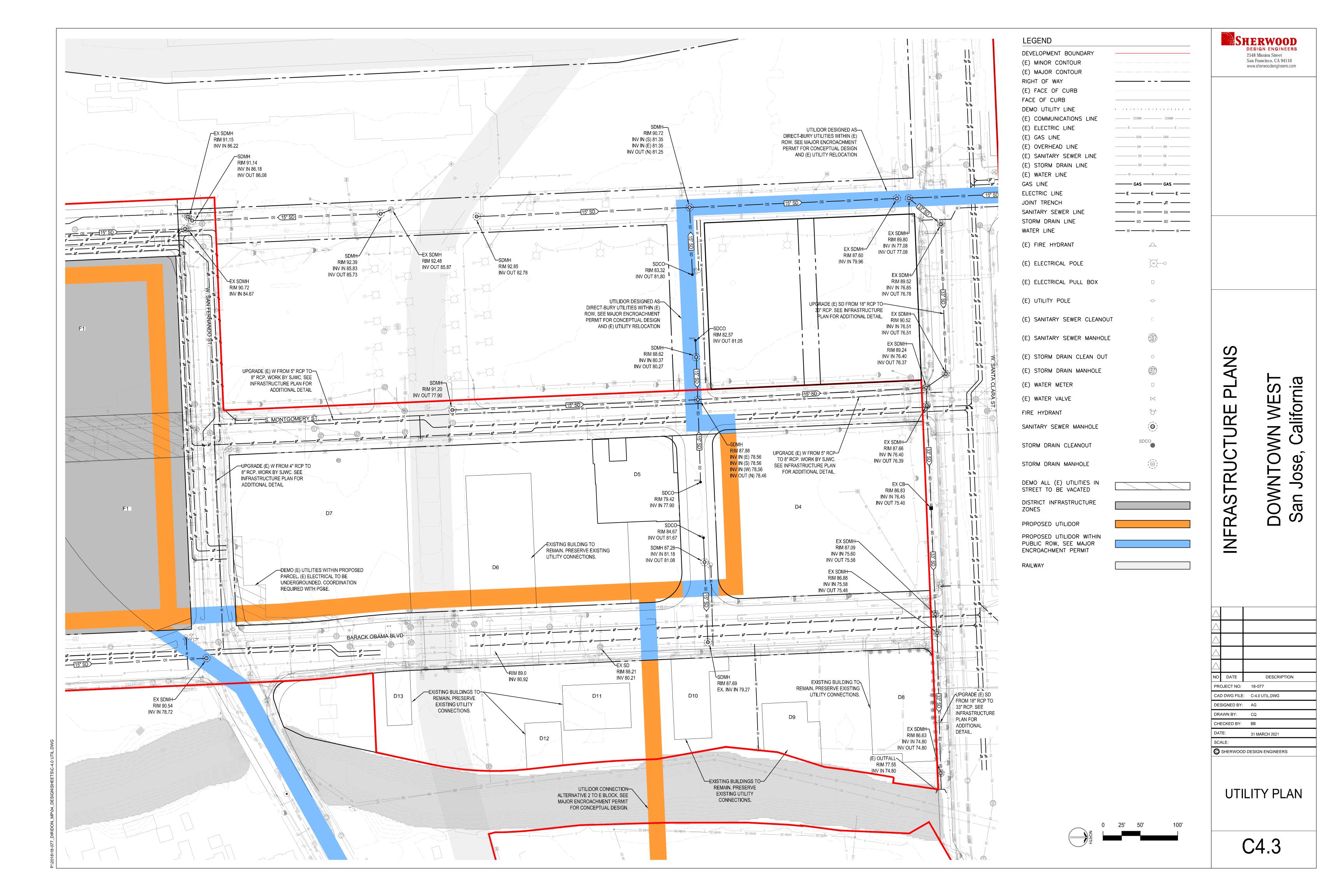


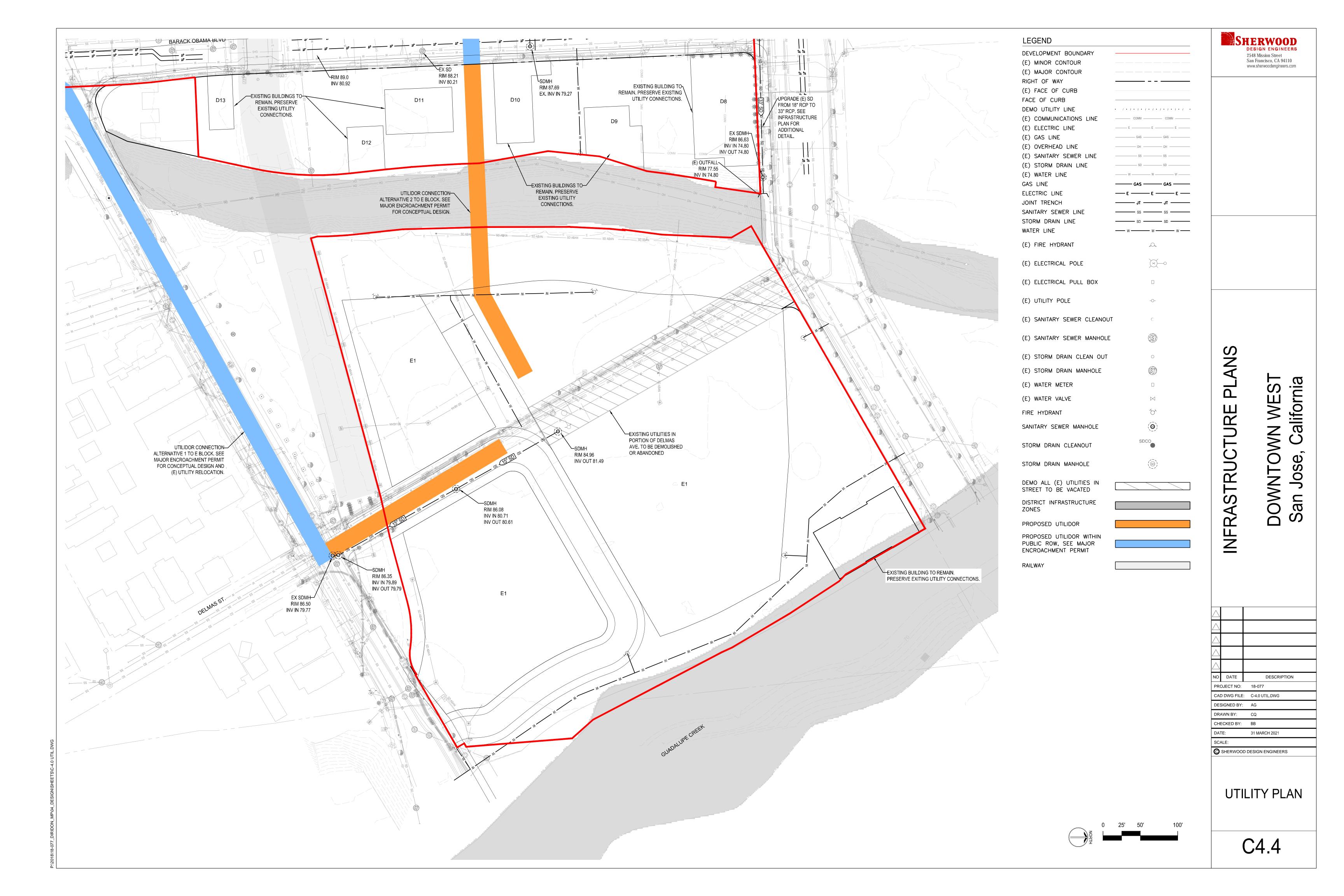


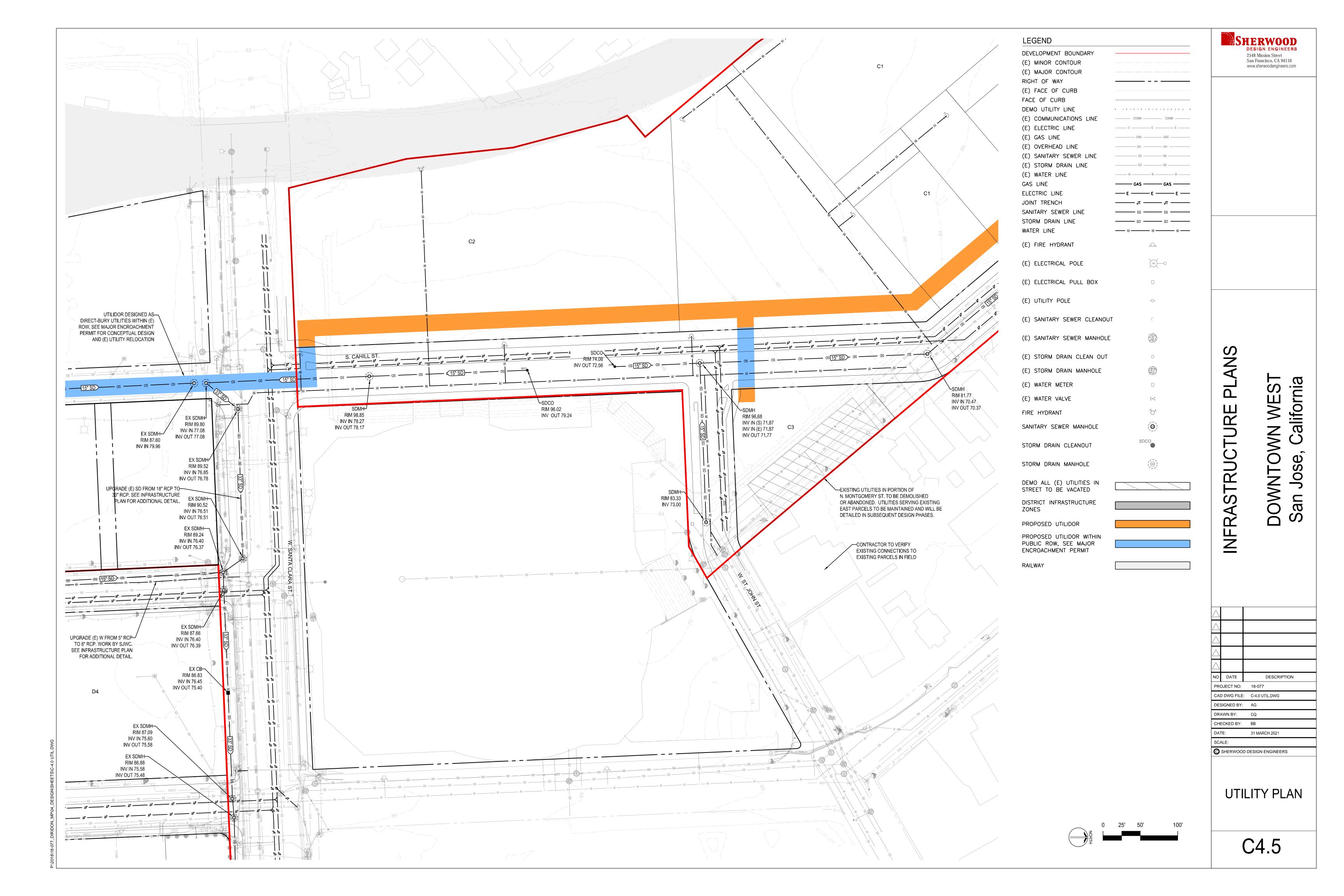


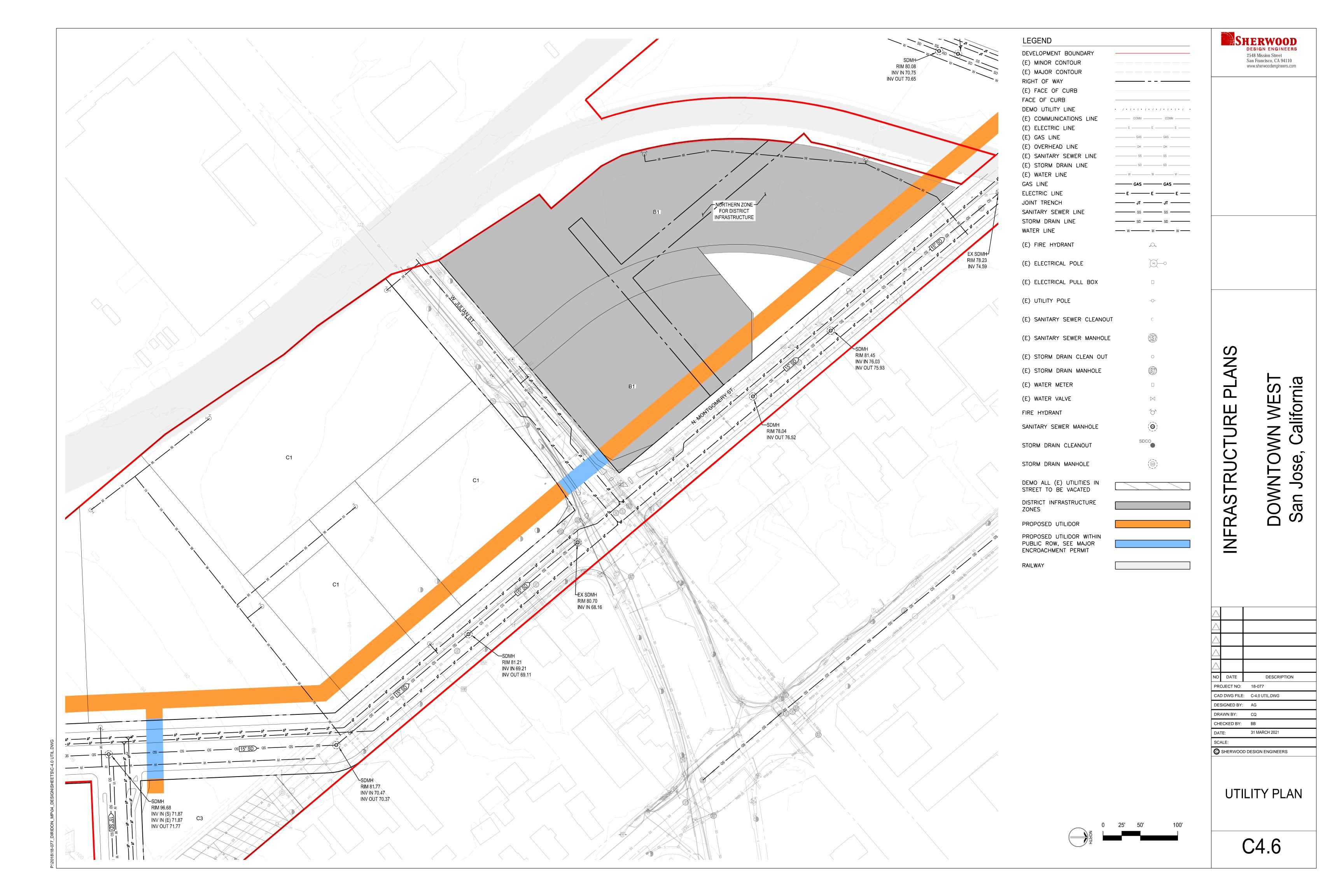


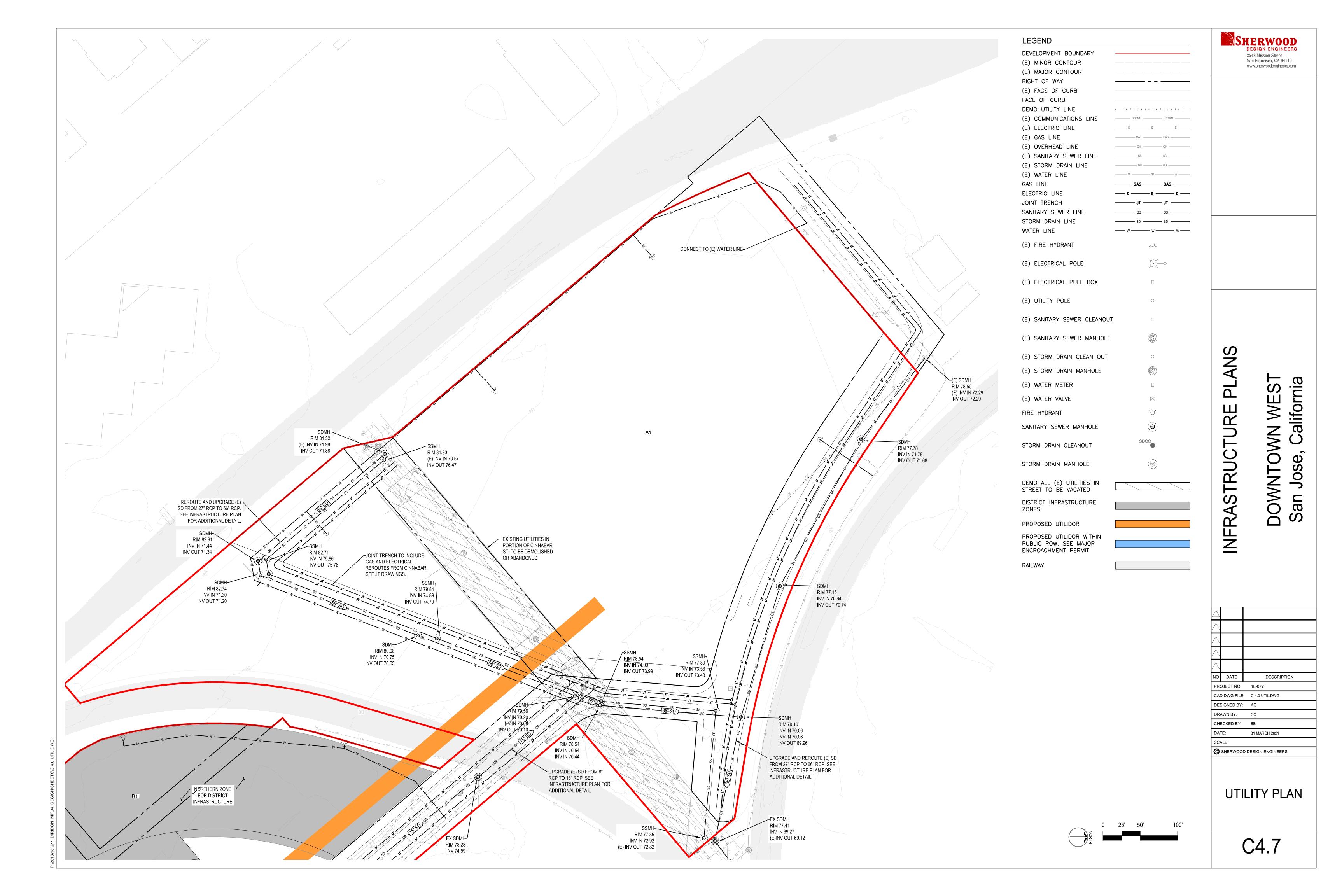




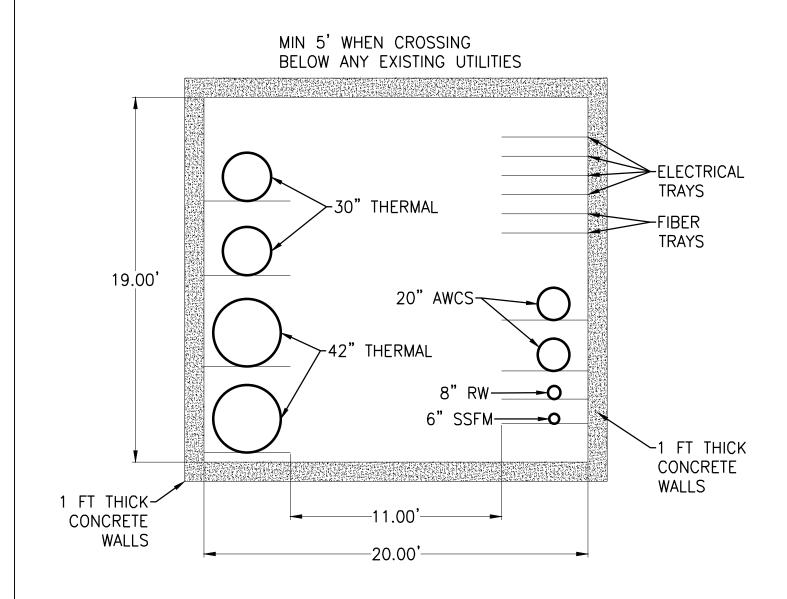












1 CONCEPTUAL UTILIDOR TUNNEL SECTION
SCALE: NTS

INFRASTRUCTURE PLANS

California

DOWNT San Jos

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| NO | DATE | DESCRIPTION |
| PRO | JECT NO: | |
| CAD | DWG FILE | : C-5.0 DETAILS.DWG |
| DES | IGNED BY: | AG |

DESIGNED BY: AG

DRAWN BY: CQ

CHECKED BY: BB

DATE: 31 MARCH 2021

DATE: 31 MARCH 2021

SCALE:

SHERWOOD DESIGN ENGINEERS

DETAILS

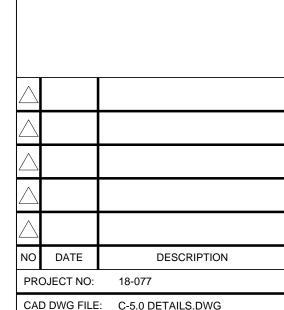
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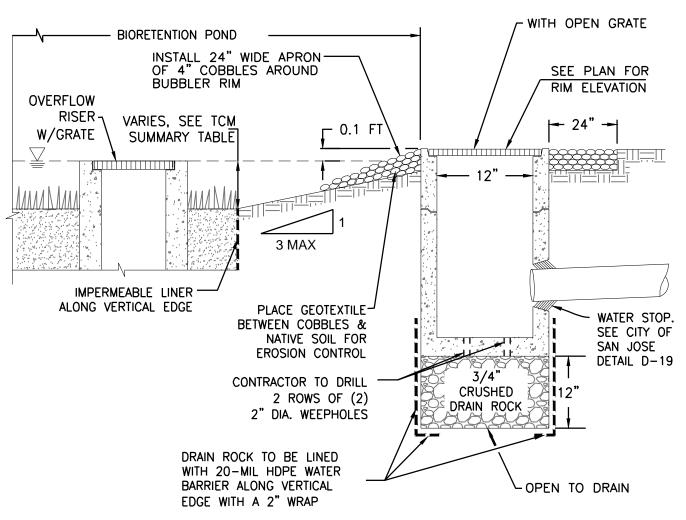
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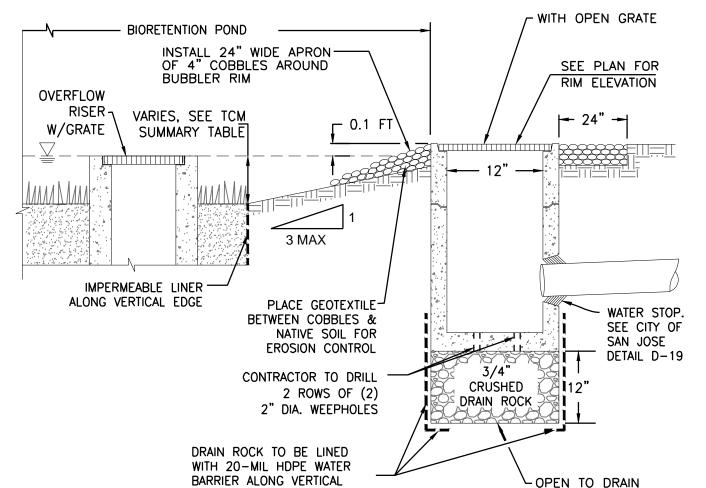
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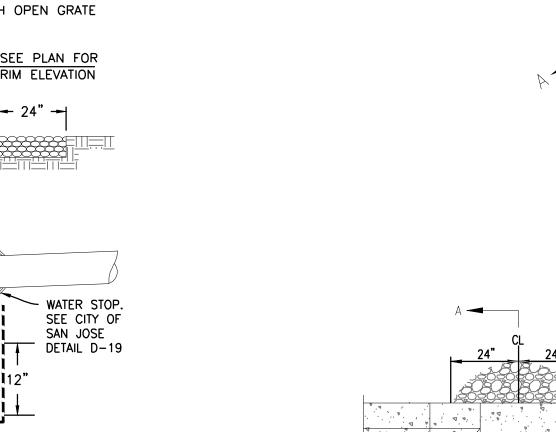
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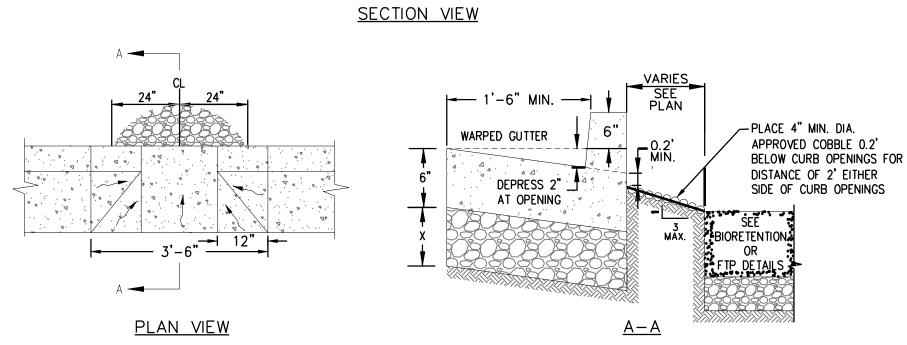
CITY OF SAN JOSE DETAILS

C5.2









CURB OPENING

CURB ADJACENT TO BIORETENTION SCALE: NTS

CURB & GUTTER-

* IF TOP OF WALL TO BOTTOM OF FOOTING IS GREATER THAN

OR EQUAL TO 4' WALL SHALL

SET BOTTOM OF CURB PER

FOR PAVEMENT STABILITY AND

TO AVOID WATER INFILTRATION

GEOTECHNICAL REPORT TO

UNDER PAVEMENT

BE STRUCTURALLY DESIGNED

AND APPROVED BY PUBLIC

WORKS PRIOR TO CONSTRUCTION.

INSTALL 4" MIN DIA. APPROVED

COBBLE 0.2 FEET BELOW CURB OPENINGS FOR DISTANCE OF 2' EITHER SIDE OF CURB OPENINGS. SEE PLAN VIEW FOR LOCATION

BOTTOM OF

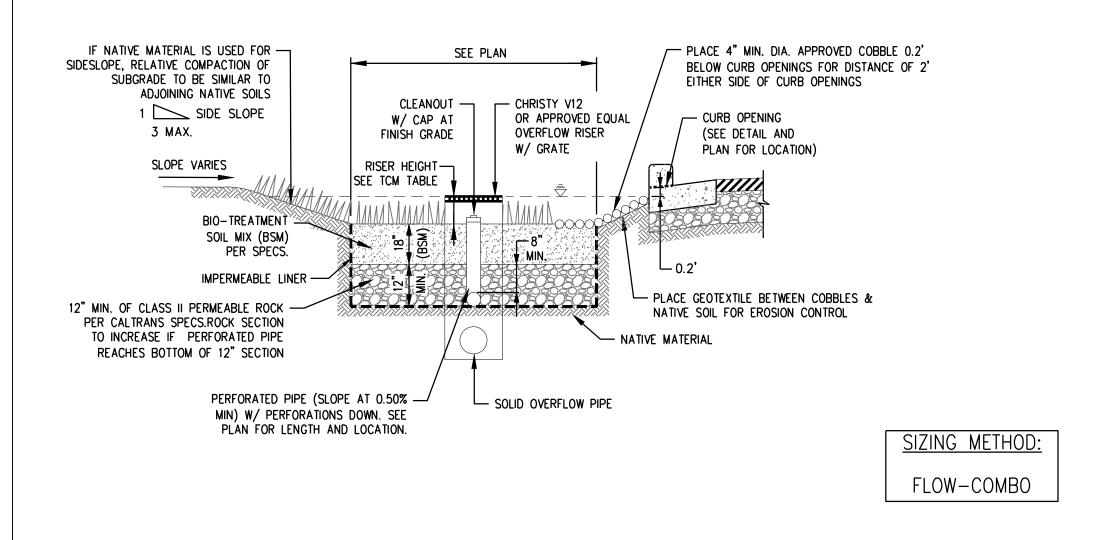
BIORETENTION

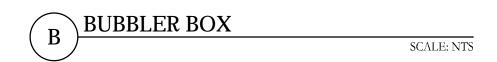
SEE BIORETENTION

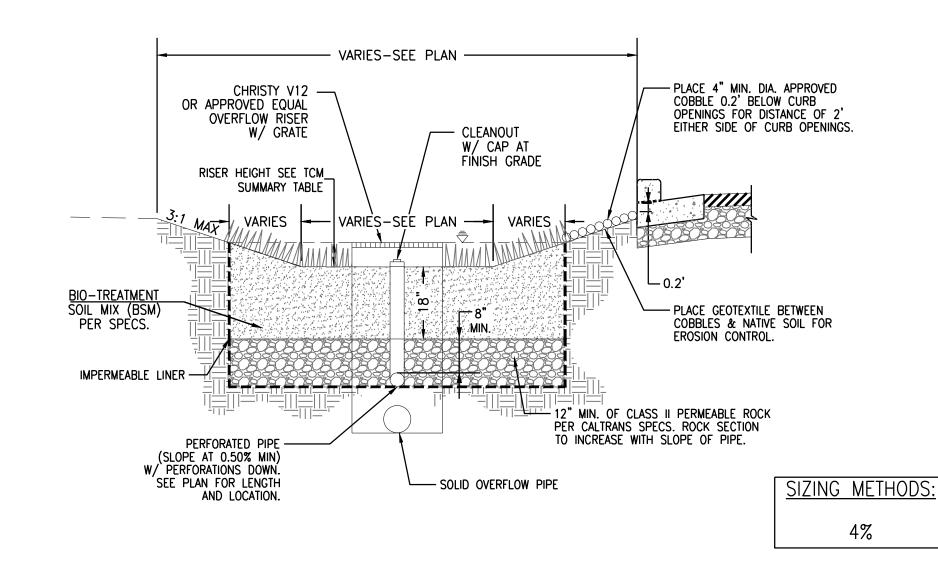
FTP DETAILS

VARIES

PER DESIGN







BIOTREATMENT SOIL REQUIREMENTS

SCALE: NTS

- BIORETENTION SOIL MIX SHALL MEET THE REQUIREMENTS AS OUTLINED IN APPENDIX C OF THE C.3 STORM WATER HANDBOOK AND SHALL BE A MIXTURE OF FINE SAND AND COMPOST MEASURED ON A VOLUME BASIS OF 60-70% SAND AND 30-40% COMPOST. CONTRACTOR TO REFER TO APPENDIX C FOR SAND AND COMPOST MATERIAL SPECIFICATIONS. CONTRACTOR MAY OBTAIN A COPY OF THE C3 HANDBOOK AT:
- HTTP://WWW.SANJOSECA.GOV/INDEX.ASPX?NID=1761 PRIOR TO ORDERING THE BIOTREATMENT SOIL MIX OR
- DELIVERY TO THE PROJECT SITE, CONTRACTOR SHALL PROVIDE A BIOTREATMENT SOIL MIX SPECIFICATION CHECKLIST, COMPLETED BY THE SOIL MIX SUPPLIER AND CERTIFIED TESTING LAB.

BIORETENTION & FLOW-THROUGH PLANTER NOTES:

1. SEE GRADING PLAN FOR BASIN FOOTPRINT AND DESIGN

IN AREAS BETWEEN STORMWATER PLANTINGS.

2. PLACE 3 INCHES OF COMPOSTED, NON-FLOATABLE MULCH

3. SEE LANDSCAPE PLAN FOR MULCH, PLANT MATERIALS AND

4. CURB CUTS SHALL BE A MINIMUM 18" WIDE AND SPACED

STORMWATER TO DRAIN INTO THE BASIN. CURB CUTS

BASIN. SEE GRADING PLAN FOR MORE DETAIL ON

5. A MINIMUM 0.2' DROP BETWEEN STORM WATER ENTRY

ADJACENT LANDSCAPE FINISHED GRADE.

BASIN. LOOSEN SOIL TO 12" DEPTH.

POINT (I.E. CURB OPENING, FLUSH CURB, ETC.) AND

6. DO NOT COMPACT NATIVE SOIL / SUBGRADE AT BOTTOM OF

AT MAXIMUM 10' O.C. INTERVALS AND SLOPED TO DIRECT

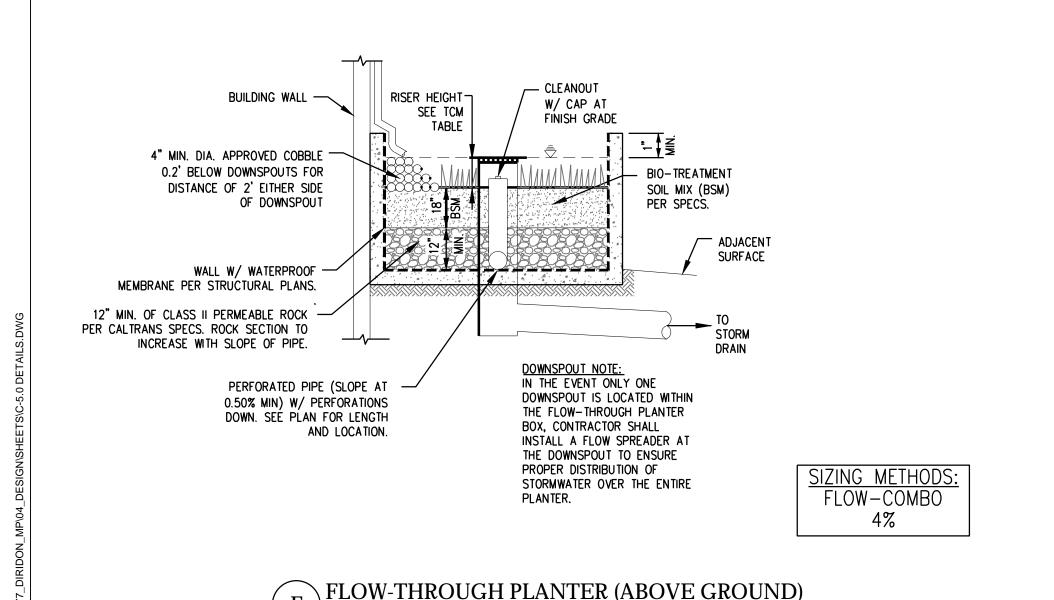
SHALL ALSO NOT BE PLACED INLINE WITH OVERFLOW CATCH

ELEVATIONS.

IRRIGATION REQUIREMENTS

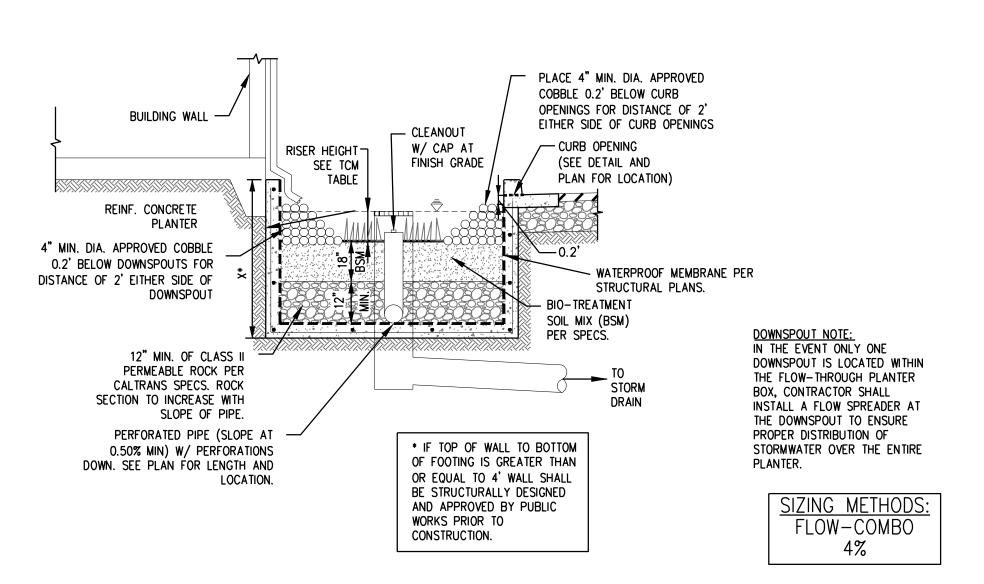
LOCATIONS OF CURB CUTS.

BIORETENTION BASIN W/ LINER SCALE: NTS



SCALE: NTS

BIORETENTION BASIN W/ LINER SCALE: NTS



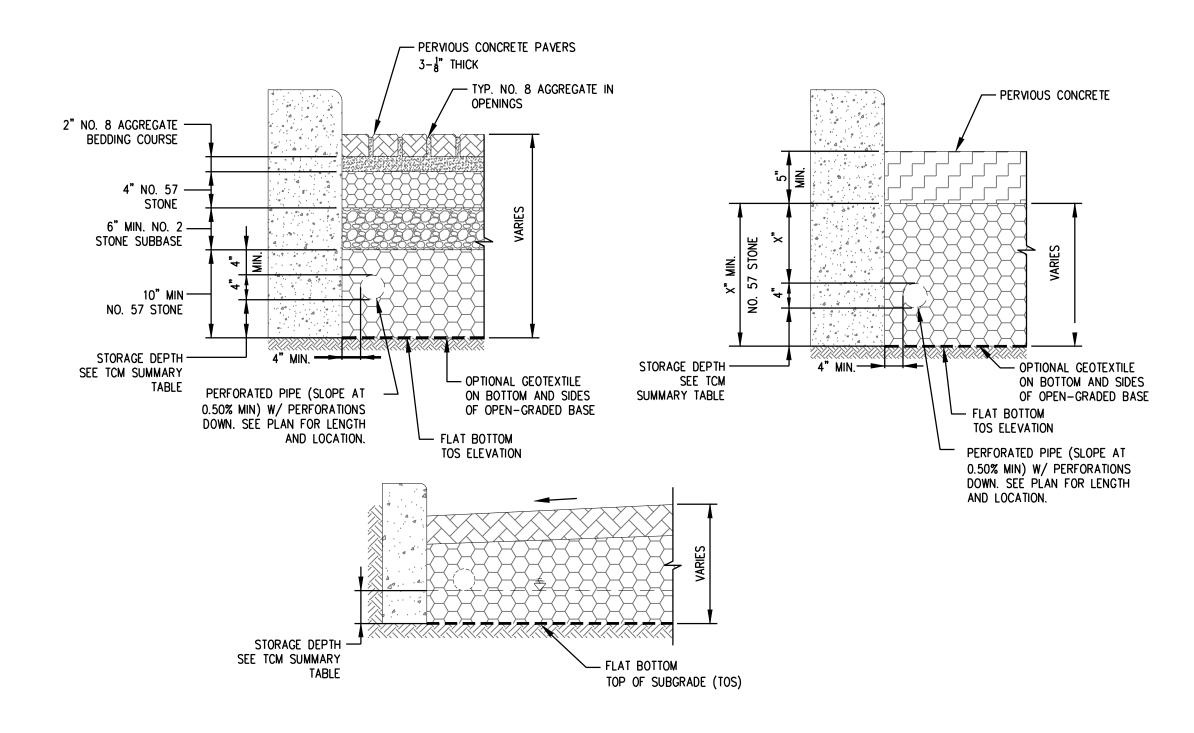
\ FLOW-THROUGH PLANTER (BELOW GROUND)

- PROVIDE CERTIFICATION FROM THE CONCRETE
 MANUFACTURER THAT THE CONCRETE MEETS THE
 REQUIREMENTS OF THE C3 STORMWATER HANDBOOK FOR
 PERVIOUS PAVERS. THIS INCLUDES, BUT IS NOT LIMITED TO,
 HAVING A MINIMUM SURFACE INFILTRATION RATE OF
 100"/HR WHEN TESTED IN ACCORDANCE WITH ASTM C1701.
- ONLY CONTRACTORS HOLDING CERTIFICATION OF COMPLETION FROM THE NATIONAL READY MIX CONCRETE ASSOCIATION (NRMA) SHALL INSTALL THE CONCRETE AND AT LEAST ONE FOREMAN WITH THIS CERTIFICATION MUST BE ON THE JOB SITE AT ALL TIMES DURING CONCRETE INSTALLATION.
- PROTECT THE EXCAVATED AREA FOR FROM EXCESSIVE
 COMPACTION DUE TO CONSTRUCTION TRAFFIC AND PROTECT
 THE FINISHED PAVEMENT FROM CONSTRUCTION TRAFFIC.

PERVIOUS PAVER REQUIREMENTS

CONTRACTOR OR PERMITEE SHALL:

- PROVIDE CERTIFICATION FROM THE PAVER MANUFACTURER
 THAT THE PAVERS MEET THE REQUIREMENTS OF THE C3
 STORMWATER HANDBOOK FOR PERVIOUS PAVERS. THIS
 INCLUDES, BUT IS NOT LIMITED TO, HAVING A MINIMUM
 SURFACE INFILTRATION RATE OF 100"/HR WHEN TESTED IN
 ACCORDANCE WITH ASTM C1701.
- ONLY CONTRACTORS HOLDING CERTIFICATION OF COMPLETION IN THE INTERLOCKING CONCRETE PAVEMENT INSTITUTES PICP INSTALLER TECHNICIAN COURSE SHALL BE USED TO INSTALL THE PAVERS AND AT LEAST ONE FOREMAN WITH THIS CERTIFICATION MUST BE ON THE JOBSITE AT ALL TIMES DURING CONCRETE PAVER INSTALLATION.
- PROTECT THE EXCAVATED AREA FOR PERVIOUS PAVERS FROM EXCESSIVE COMPACTION DUE TO CONSTRUCTION TRAFFIC AND PROTECT THE FINISHED PAVEMENT FROM CONSTRUCTION TRAFFIC.



B PERVIOUS PAVEMENT (SELF-RETAINING)
SCALE: NTS

SHERWOOD

DESIGN ENGINEERS

2548 Mission Street
San Francisco, CA 94110
www.sherwoodengineers.com

DOWNTOWN WEST

alifornia

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| NO | DATE | DESCRIPTION | | | | |
| PRO | DJECT NO: | 18-077 | | | | |
| CAE | DWG FILE | : C-5.0 DETAILS.DWG | | | | |
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PROJECT NO: 18-077

CAD DWG FILE: C-5.0 DETAILS.DWG

DESIGNED BY: AG

DRAWN BY: CQ

CHECKED BY: BB

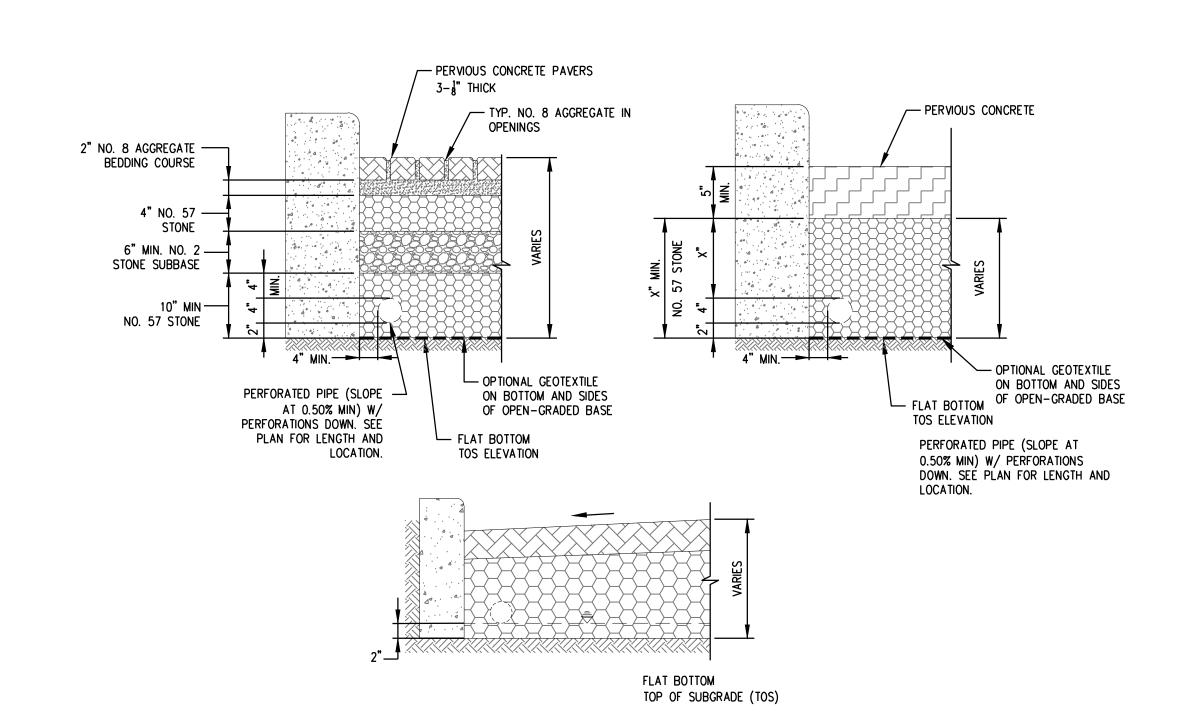
DATE: 31 MARCH 2021

SCALE:

SHERWOOD DESIGN ENGINEERS

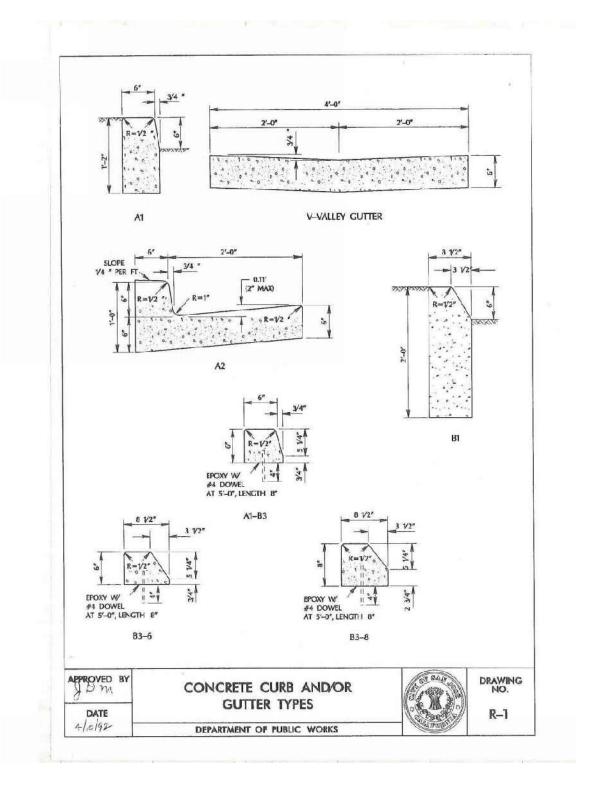
CITY OF SAN JOSE DETAILS

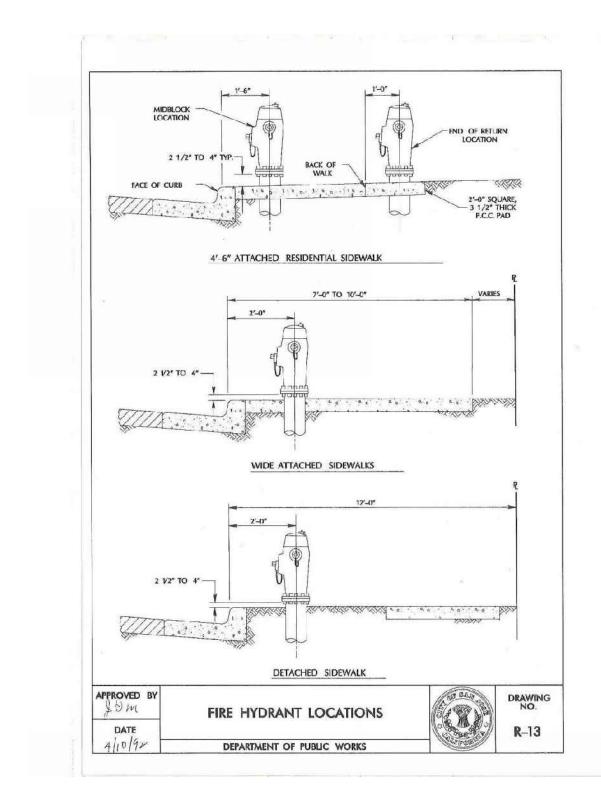
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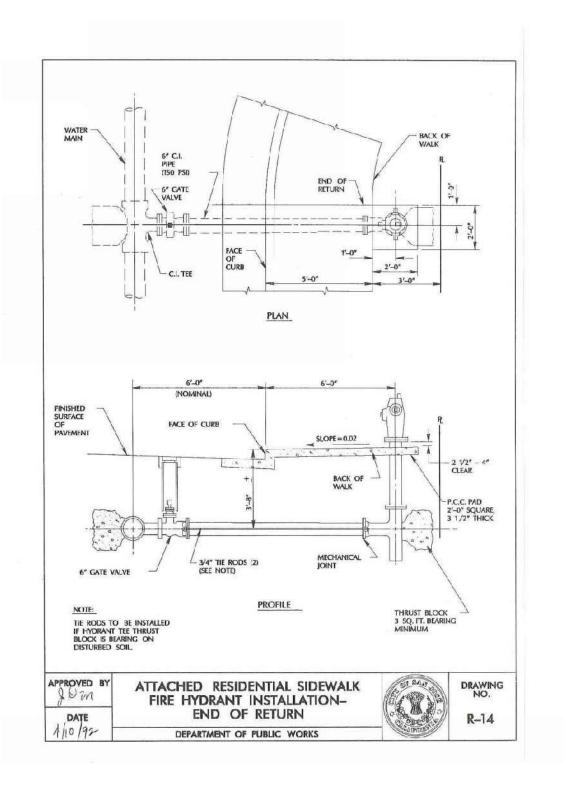


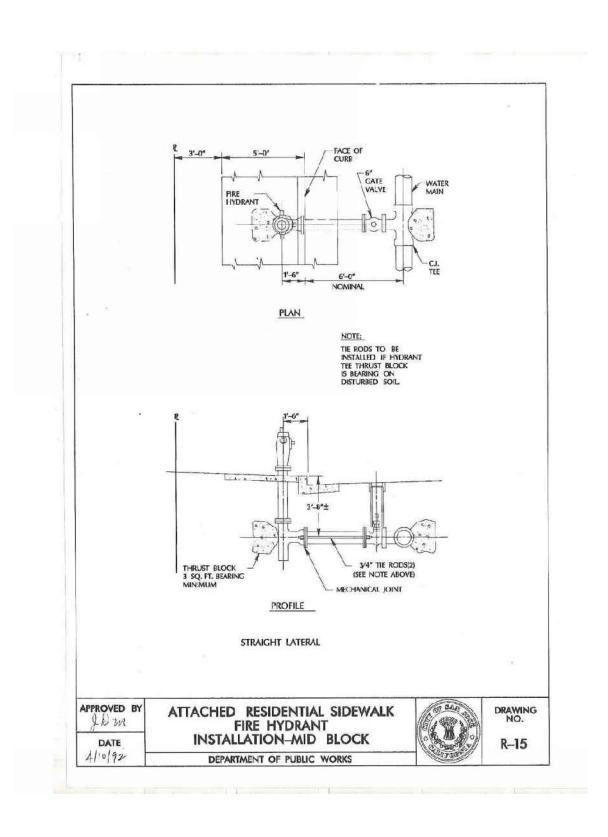
\ PERVIOUS PAVEMENT (SELF-TREATING)

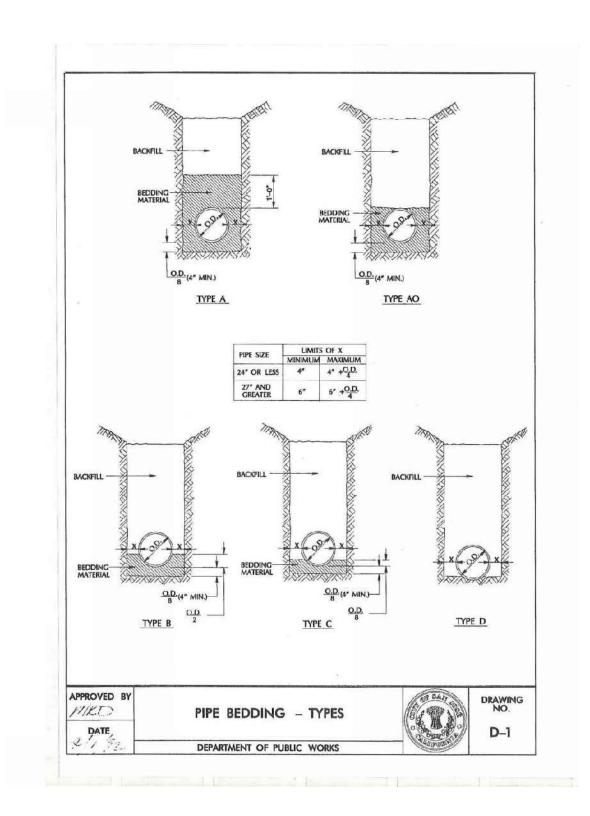


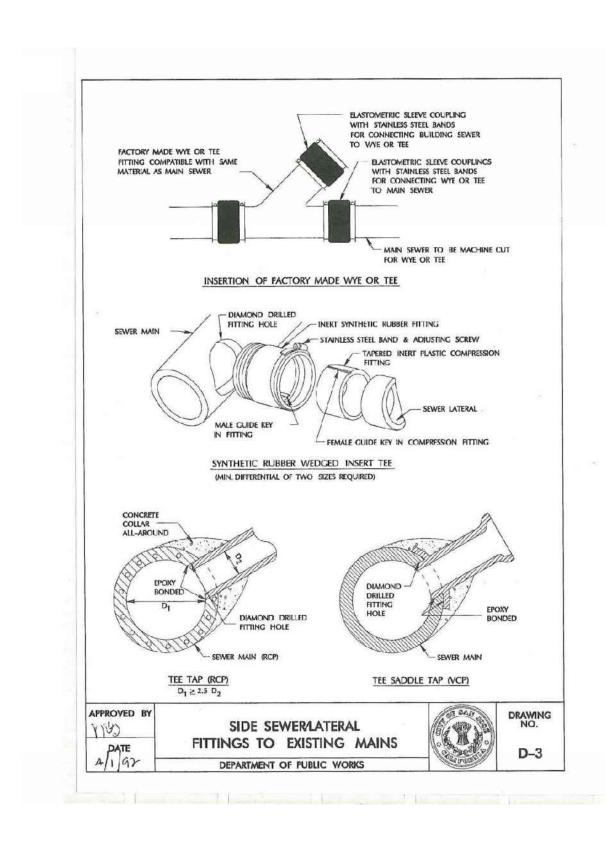


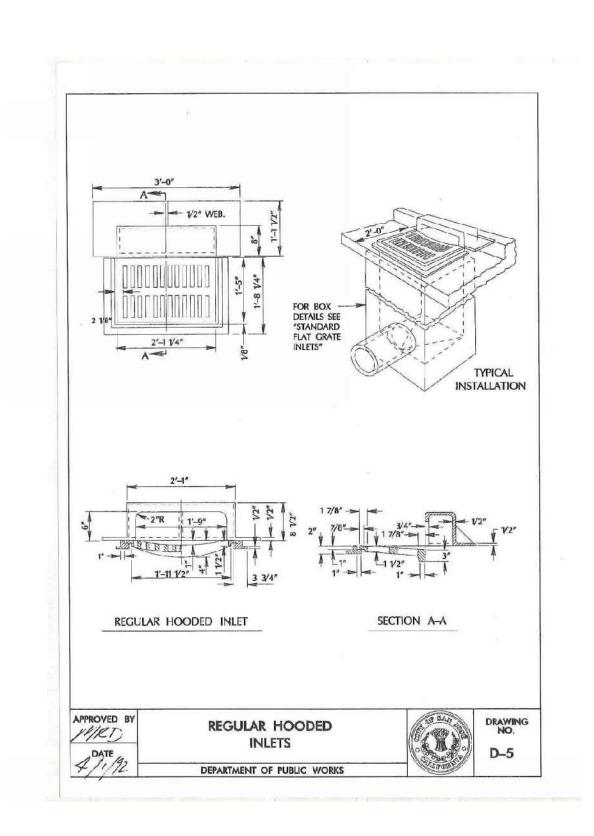


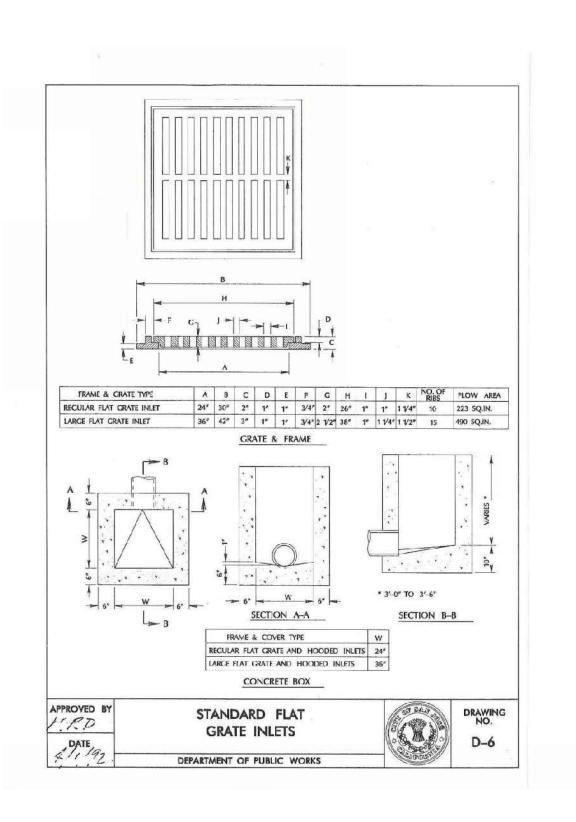












INFRASTRUCTURE PLANS

California

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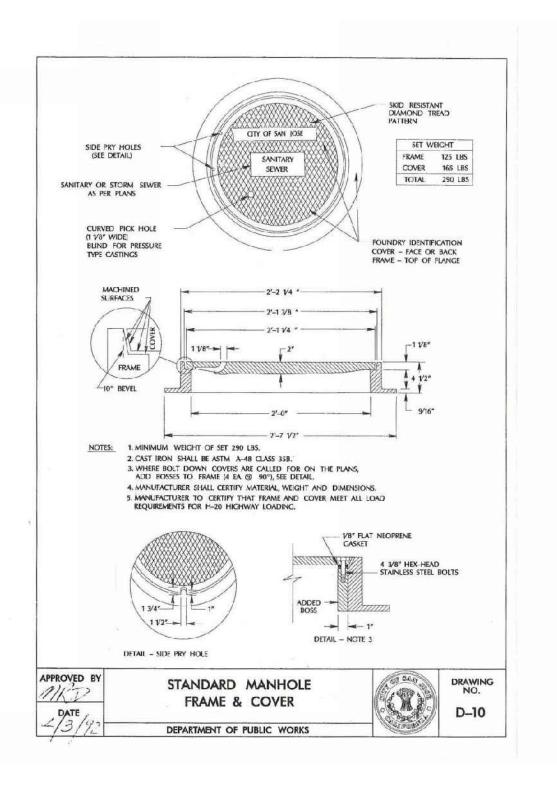
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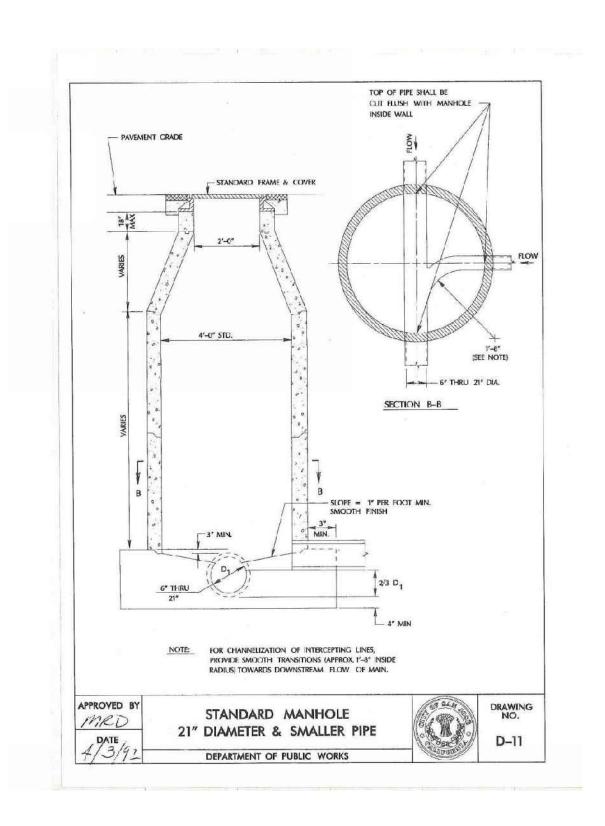
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| CAI | DWG FILE | : C-5.0 DETAILS.DWG | | |
| DES | SIGNED BY: | AG | | |
| DRA | AWN BY: | CQ | | |
| CHE | CKED BY: | BB | | |
| DAT | ΓE: | 31 MARCH 2021 | | |
| SCA | SCALE: | | | |
| 0 | SHERWOOD DESIGN ENGINEERS | | | |

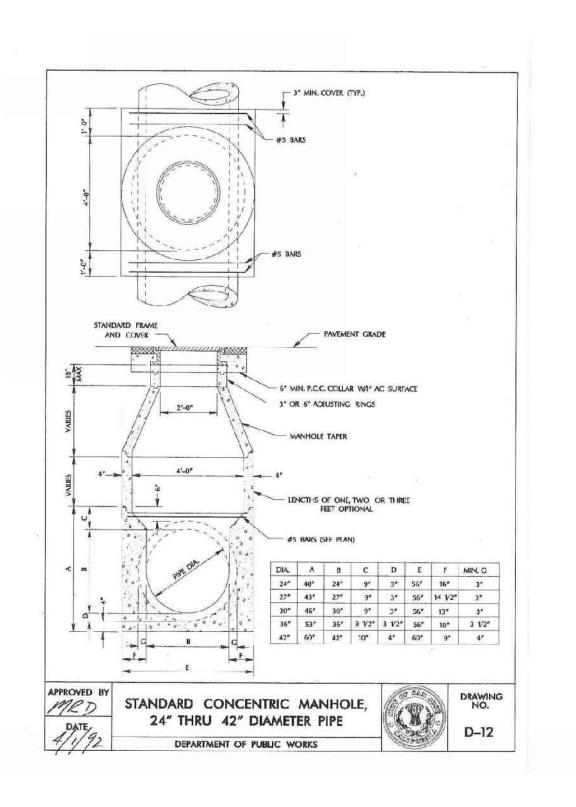
CITY OF SAN JOSE DETAILS

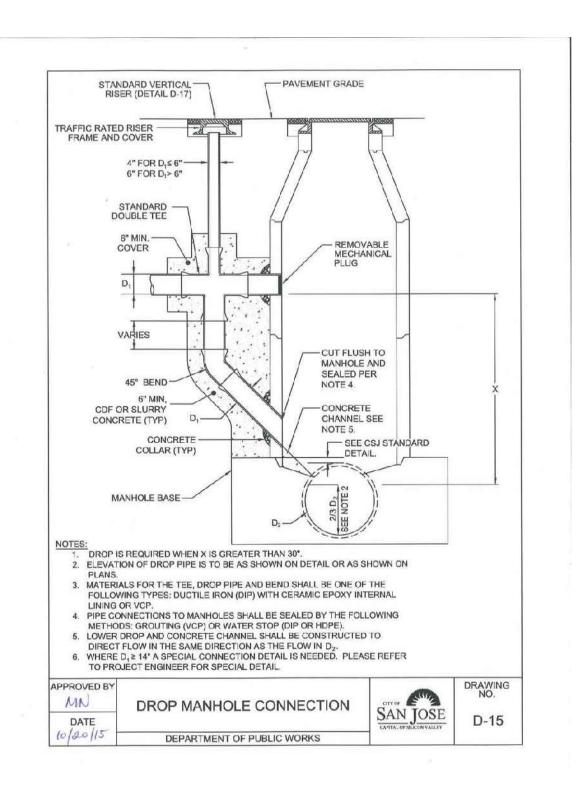
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INFRASTRUCTURE PLANS

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| PRC | DJECT NO: | 18-077 |
| CAE | DWG FILE | : C-5.0 DETAILS.DWG |
| DES | SIGNED BY: | AG |
| | | |

CHECKED BY: BB

CITY OF SAN JOSE DETAILS

31 MARCH 2021

SHERWOOD DESIGN ENGINEERS

C5.5

FORM #120 09/11/2019 SUBJECT TO CHANGE CONCEPTION Stormwater Evaluation Form

Planning, Building and Code Enforcement

| FILE# | |
|-------|--|
| | |

INSTRUCTIONS: At minimum, complete Sections 1.a and 2.d of this form and submit it with all Planning Permit applications.

If you answer "yes" to one or both questions below, your project must comply with Provision C.3 of the Municipal Regional Stormwater Permit (MRP) and you must complete the entire form:

- Does your project create or replace 10,000 sq. ft. or more of impervious surface on the project site?
- Does your project involve a restaurant, auto service facility, retail gasoline outlet, uncovered parking lot, or top uncovered portion of a parking structure that creates or replaces 5,000 sq. ft. or more of impervious surface on a project site?

What is an impervious surface? An impervious surface is pavement or other surface covering that prevents land from absorbing and infiltrating rainfall and stormwater. Impervious surfaces include driveways, walkways, parking lots, rooftops and any other continuous watertight covering. Pervious pavement underlain with pervious soil or material, e.g., drain rock, that infiltrates rainfall at a rate equal to or greater than surrounding unpaved areas OR that stores and infiltrates the water quality design volume specified in Provision C.3.d of the MRP, is not considered an impervious surface.

For more information and definitions, see the Stormwater Management web page at www.sanjoseca.gov/planning.

1. USES AND LOCATION

| 1.a. Are any of these uses included in your project? Check all that apply. ☑ Restaurant ☐ Retail Fuel Outlet ☑ Uncovered Parking ☐ Auto Service, as categorized by the Standard Industrial Classification (SIC) Codes 5013-5014, 5541, 7532-7534, 7536-7539. Determine your SIC Codes at www.osha.gov. List the applicable SIC Code/s: |
|---|
| 1.b. Check the watershed in which your project is located. See the Watershed Maps web page at www.sanjoseca.gov/index.aspx?nid=1868 |
| □ Baylands |
| □ Calabazas |
| ☐ Coyote (including Lower Penitencia) |
| ☑ Guadalupe |
| ☐ San Tomas |
| 1.c. Special Project Status Use the online Special Project Worksheet at www.sanjoseca.gov/index.aspx?NID=1761 to determine if your project qualifies as a Special Project. Does your project qualify? Use Attach the Special Project Worksheet and Narrative to this application. |
| ☑ No Note: See the Special Projects Worksheet for requirements. |

continued>

2. AREA DATA

| 2.a. Enter the Project Phase Number (1, 2, 3, etc. or N/A if Not Applicable): | | | N/A |
|---|-------|-------|-----|
| 2.b. Total area of site: | 78.95 | acres | |
| 2.c Total area of site that will be disturbed: | 78.95 | acres | |

| | Due Duelest | Evicting IA | Evictica IA | New IA | Total Post |
|--|--------------------------------|---------------|-------------------------------|----------------------|---------------------------------|
| A INADEDVIOLIC ADEAC IA | Pre-Project | Existing IA | Existing IA | | |
| 2.d. IMPERVIOUS AREAS - IA | Existing IA | | Replaced with IA ² | Created ² | Project IA |
| | (sq. ft.) | (sq. ft.) | (sq. ft.) | (sq. ft.) | (sq. ft.) |
| Site Totals | | | | | |
| Total IA | d.1. 2,529,285 | d.2. 0 | d.3. 2,328,491 | d.4. 0 | d.5. (d.2+d.3+d.4) 2,328,491 |
| Total New and Replaced IA | | | d.6 (d.3+d.4) 2,328,491 | | |
| Public Street Totals | | | | | |
| Total Public Streets IA ³ | d.8 806,788 | d.9 0 | d.10 698,049 | d.11 0 | d.12 (d.9+d.10+d.11 698,049 |
| Total New and Replaced Public Streets IA | | | d.13 (d.10+d.11) 698,049 | | |
| Total Site and Public Streets IA | d.14 (d.1.+d.8) 3,336,073 | | | | d.15 (d.5+d.12) 3,026,540 |
| Percent Replacement of IA in Redevelop | nent Projects (d. | 3÷d.1) x 100: | | | d.16 92.1 |
| | Pre-Project | | | | Total Post |
| 2.e. PERVIOUS AREAS - PA | Existing PA | | | | Project PA |
| | (sq. ft.) | | | | (sq. ft.) |
| | e.1. | | | | e.2 |
| Total PA ⁴ | 103,177 | | | | 412,710 |
| | f.1. (d.14 + e.1) | | | | f.2. (d.15 + e 2) |
| 2.f. Total Area (IA + PA) | f.1. (d.14 + e.1) 3,439,250 | | | | f.2. (d.15 + e.2) 3,439,250 |

FOOTNOTES

- 1. "Retained" in box 2.d.2 means to leave existing IA in place. An IA that goes through maintenance (e.g., pavement resurfacing/slurry seal/grind), but no change in grade is considered "retained."
- 2. The "replaced" and "new" IA in boxes 2.d.3. and 2.d. 4 are based on the total area of the site and not specific locations on site. For example, impervious parking created over a pervious area is not "new" IA if an equal amount of pervious area replaces IA somewhere else on the site. Constructed IA on a site that does not exceed the Total Pre-Project IA in box 2.d.1. will be considered "replaced" IA. A site will have "new" IA only if the Total Post-Project IA in box 2.d.5. exceeds the Total Pre-Project IA (2.d.5 2.d.1 = 2.d.4).
- 3. These areas are locations of the public street that are being dedicated (sidewalk or street easement) to the City of San José.
- 4. Include bioretention areas, infiltration areas, green roofs, and pervious pavement in PA calculations.

3. APPLICABILITY OF PROVISION C.3

| 3.a. | Is 2.c. equal to 1 acre or more? ✓ Yes. Applicant must obtain coverage under the State Construction General Permit. □ No. Applicant does not need coverage under the State Construction General Permit. |
|------|---|
| 3.b. | Is box 2.d.6 equal to 10,000 sq. ft. or more for any type of project, or 5,000 sq. ft. or more for restaurants, auto service facilities, retail gas outlets, and uncovered parking? ☑ Yes. Site Design, Source Control, and Treatment System requirements will all apply to the project area. ☐ No. Site Design and Source Control requirements may apply; check with local agency. |
| 3.c. | Is box 2.d.16 equal to or greater than 50%? ☑ Yes. Site Design, Source Control, and Treatment System requirements all apply to the entire site. □ No. Site Design, Source Control, and Treatment System requirements only apply to the area of site that is disturbed. |
| | |

continued>

| 3.d. Indicate the Provision C.3 measures to be applied to your project. Check all that apply: | | | | | |
|---|---|---|--|--|--|
| SITE DESIGN MEASURES | SOURCE CONTROL MEASURES | TREATMENT SYSTEMS | | | |
| PROTECTION MEASURES | ☑ Beneficial landscaping ⁴ | NONE | | | |
| Protect existing trees, vegetation, and soil. | ✓ Use water efficient irrigation systems.✓ Good housekeeping, e.g., sweep | Impervious surfaces drain to one or more self-retaining areas that are | | | |
| ☑ Protect riparian and wetland areas/ buffers (Riparian setbackft.)¹ | pavement and clean catch basin. 2 Label storm drains. | sized per the design criteria listed in the C.3 Stormwater Handbook. | | | |
| ✓ Preserve open space and natural | ✓ Connect to the sanitary sewer: ³ | LID TREATMENT | | | |
| drainage patterns: sq. ft. | ✓ Covered trash/recycling enclosures | ☐ Rainwater harvest and use (e.g., cistern or rain barrel sized for C.3.d | | | |
| ☐ Rainwater harvesting and use (e.g., rain barrel, cistern connected to roof | Interior parking structuresWash area/racks | treatment) Infiltration well/dry well | | | |
| drains) ² | O Pools, spas, fountains | ☐ Infiltration trench | | | |
| LANDSCAPE DESIGN MEASURES | Covered loading docks and maintenance bays | ☐ Subsurface Infiltration System (e.g. | | | |
| ☐ Direct runoff from roofs, sidewalks, patios to landscaped areas. | ✓ Pumped groundwater☐ Fueling areas must (all required): | vault or large diameter pipe over drain rock) | | | |
| ☑ Plant trees adjacent to and in parking areas and adjacent to other impervious areas. | Be graded to prevent ponding. Use a concrete surface. Be separated from the site by a | BIOTREATMENT ☑ Bioretention area ☑ Flow-through planter | | | |
| DESIGN MEASURES TO MINIMIZE IMPERVIOUS SURFACE AREA | grade break to prevent run-on. Have a canopy cover extending at | ✓ Tree well filter or trench with bioretention soils ⁵ | | | |
| ☑ Reduce existing impervious surfaces. | least 10 feet from each pump. | ☐ Other: | | | |
| ☑ Cluster structures/pavement. | ☐ Industrial, outdoor material storage, and recycling facilities must (all | | | | |
| ☑ Create new pervious areas: | required): | OTHER TREATMENT METHODS | | | |
| Landscaping | Stockpile material on an impervious | SPECIAL PROJECTS ONLY ⁶ | | | |
| O Parking stalls | surface or under a permanent roof | ☐ Proprietary tree box filter | | | |
| ✓ Walkways and patios ✓ - ✓ - ✓ - ✓ - ✓ - ✓ - ✓ - ✓ | or covering. | ☐ Media filter (sand, compost, or | | | |
| Emergency vehicle access Private streets and sidewalks | Direct ponded water to the sanitary sewer,² an on-site treatment | proprietary media) | | | |
| ☐ Install a Green Roof on all or a | system, or off-site disposal. | MULTI-STEP PROCESS ONLY 7 | | | |
| portion of the roof. | Install berms or curbs to prevent | ☐ Vegetated filter strip | | | |
| ✓ Parking: | runoff from the storage/processing | ☐ Extended Detention Basin | | | |
| ⊘ On top of or under buildings | areas. - Segregate pollutant-generating | ☐ Vegetated Swale | | | |
| ✓ Not provided in excess of Code | activities into a distinct drainage management area and provide | | | | |
| ☐ Other: | treatment. | | | | |
| | ☐ Other: | | | | |
| | | | | | |

FOOTNOTES

- 1. Per Council Policy 6-34, setback is measured from the outside dripline of the Riparian Corridor vegetation or top-of-bank, whichever is greater.
- 2 As a site design measure, it does not have to be sized to comply with Provision C.3.d treatment requirements.
- 3 Subject to the requirements of the sanitary sewer authority.
- 4 Landscaping that minimizes irrigation and runoff, promotes surface infiltration where possible, and minimizes the use of pesticides and fertilizers.
- 5 Bioretention soils shall infiltrate runoff at a minimum of 5 inches per hour during the life of the facility and sustain healthy, vigorous plant growth.
- 6 These treatment measures are only allowed if the project qualifies as a Special Project.
- 7 These treatment measures are only allowed as part of a multi-step treatment process (i.e. pretreatment).

continued>

4. TREATMENT SYSTEM SIZING FOR PROJECTS WITH TREATMENT REQUIREMENTS

For each treatment system component, indicate the hydraulic sizing criteria used and provide the calculated design flow or volume to be treated:

| Treatment System Component | Hydraulic Sizing Criteria Enter numbers from Table below | Design Flow or Volume cfs or cu.ft. |
|----------------------------|--|--|
| Bioretentiion | 2c - Simplified Method | |
| | | |
| | | |
| | | |
| | | |

CODING TABLE FOR HYDRAULIC SIZING CRITERIA Enter the appropriate number in the above column 1a: Volume - WEF Method 2a: Flow - Factored Flood Flow Method 3: Combination Flow and Volume Design Basis 1b: Volume – CASQA BMP Handbook Method 2b: Flow – CASQA BMP Handbook Method 2c: Flow - Uniform Intensity Method

| 5. HYDROMODIFICATION MANAGEMENT (HM) APPLICABILITY |
|---|
| 5.a. Does the project create and/or replace one acre or more of impervious surface AND create an increase in total impervious surface from the pre-project condition (from page 2, is 2d.5 > 2d.1 AND 2d.6 is ≥ one acre)? |
| ☐ Yes. Continue to Question 5.b. |
| ☑ No. Project is exempt from Hydromodification Management. |
| 5.b. Is the project located in the green "Subwatersheds less than 65% Impervious" area on the HM Applicability Map? □ Yes. Project must implement HM requirements. Continue to Question 5.c. □ No. Project is exempt from Hydromodification Management. |
| 5.c. If Yes to 5.b, select the specific flow duration controls for Hydromodification Management. |
| Check all that apply: |
| ☐ Extended Detention Basin |
| ☐ Underground tank or vault |
| ☐ Bioretention with outlet control |
| □ Other: |
| |

6. OPERATION & MAINTENANCE (O&M) CONTACT INFORMATION

Please enter the contact information of the Responsible Party for Stormwater Treatment/Hydromodification Control O&M:

| NAME | MAILING ADDRESS | EMAIL/PHONE |
|------------------------------------|-----------------|-------------|
| RESPONSIBLE PARTY IN CHARGE OF O&M | STREET: | EMAIL: |
| NAME: | CITY: ZIP: | PHONE: |
| FIRM NAME IF ANY: | | |

7. FORM COMPLETED BY

Alyson Goulden 3/30/2021 PRINT NAME DATE

WORK RESPONSIBILITY <u>TRENCHING</u> EXCAVATE & BACKFILL GAS MATERIAL SUPPLY & INSTALL \cdot 0 0 0 0 \blacksquare *PG&E ELECTRIC CABLE SUPPLY & INSTALL.

ELECTRIC CONDUIT

ELECTRIC BOXES

SUPPLY & INSTALI

SUPPLY & INSTALL

PG&E ELECTRIC SWITCHES

| E | (CAVATION | Ŏ |
|---|-----------------------------------|---|
| | RIC PADS JPPLY & INSTALL | |
| | RIC TRANSFORMERS JPPLY & INSTALL | |
| | RIC INTERRUPTERS JPPLY & INSTALL | |

SUPPLY & INSTALL \cdots TELEPHONE CONDUIT SUPPLY & INSTALL. <u>TELEPHONE CABLE</u> SUPPLY & INSTALI TELEPHONE SPLICE BOXES SUPPLY & INSTALL..... EXCAVATION. .

TELEPHONE S.A.I. PADS SUPPLY & INSTALL.... EXCAVATION.. C.A.T.V. CONDUIT SUPPLY & INSTALI C.A.T.V. SPLICE BOXES SUPPLY & INSTALL.....

EXCAVATION..... C.L.E.C. FIBER CONDUIT ___ACCEPTED ___DECLINED SUPPLY & INSTALL..... <u>C.L.E.C. FIBER SPLICE BOXES</u> ___accepted ___declined

SUPPLY & INSTALL.....

EXCAVATION..... ■ WORK TO BE PERFORMED BY THE RESPECTIVE CONTRACTOR & UTILITY COMPANIES

ASSUME CONTRACTOR RESPONSIBILITY UNLESS OTHERWISE SPECIFIED

NOT APPLICABLE UNLESS OTHERWISE SPECIFIED

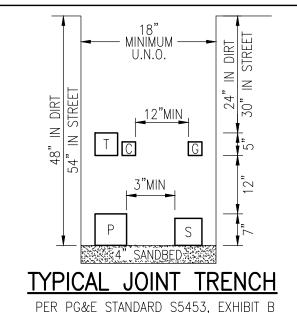
* PG&E TO PULL CABLE INTO ENERGIZED ENCLOSURES NOTE: FOR A MORE DETAILED WORK RESPONSIBILITY BREAKDOWN, SEE CORRESPONDING MATERIAL LIS

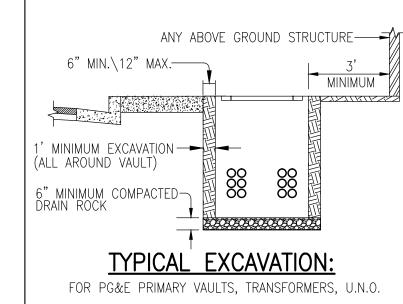
THESE PLANS WERE PREPARED IN CONJUNCTION WITH THE FOLLOWING PLANS:

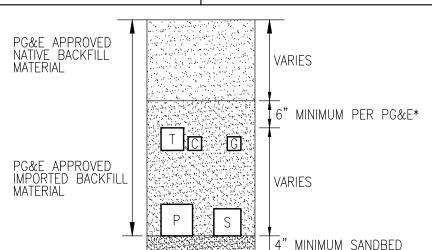
| | RECEIVED | APPROVED |
|---------------------------------------|------------|-------------|
| CIVIL IMPROVEMENT PLANS/GRADING PLANS | 03-10-2021 | PRELIMINAR) |
| ARCHITECTURAL ELECTRONIC FILE | | |
| APPLICANT DESIGN (GAS) | | |
| APPLICANT DESIGN (ELECTRIC) | | |
| TELEPHONE | | |
| C.A.T.V. | | |
| LANDSCAPE | | |
| LIGHT LOCATIONS | | |
| TRAFFIC SIGNAL LOCATIONS | | |

RADIUS DESIGN is not responsible for any subsequent changes or revisions.

OTHER UTILITIES SHOWN ARE APPROXIMATE AND BASED ON FIELD SURVEY AND AVAILABLE UTILITY INFORMATION. IT IS THE CONTRACTORS' RESPONSIBILITY TO VERIFY THE ACTUAL LOCATION AND EXTENT OF UTILITIES PRIOR TO THE COMMENCEMENT OF WORK. PHYSICAL VERIFICATION OF UTILITY LOCATIONS SHALL BE PERFORMED BY CAREFUL PROBING OR HAND DIGGING IN ACCORDANCE WITH ARTICLE 6 OF THE CAL/OSHA CONSTRUCTION SAFETY ORDERS.

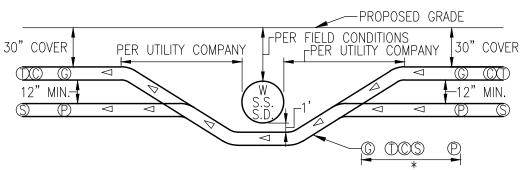


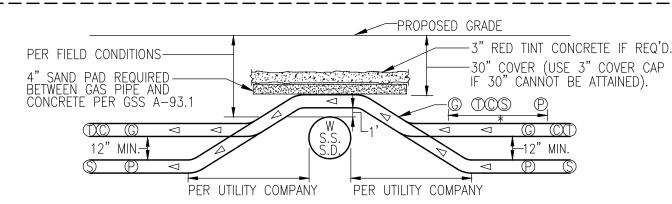




MINIMUM BACKFILL REQUIREMENTS

*CHECK WITH LOCAL GOVERNING AGENCIES FOR POSSIBLE VARIATIONS



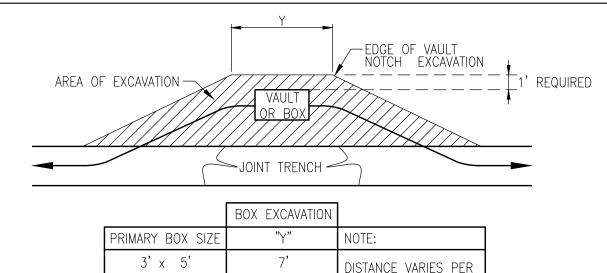


JOINT TRENCH OVER WATER & S.S. & S.D.

NOTE: TRENCH DEPTH NOT TO EXCEED 5' UNLESS APPROVED BY PG&E INSPECTOR. IN <u>NO</u> CASE SHOULD PLASTIC GAS PIPE BE INSTALLED AT A DEPTH GREATER THAN 10' UNLESS APPROVED BY PG&E SENIOR GAS ENGINEER.

*WIDTH PER SIZE & NUMBER OF EACH UTILITY. PG&E AND CITY INSPECTOR TO DETERMINE METHOD OF CROSSING

TRENCHING CONTRACTOR SHALL NOT ASSUME THAT EITHER OF THE ABOVE DETAILS WILL BE ACCEPTABLE TO PG&E. YOU ARE REQUIRED TO CONTACT THE LOCAL PG&E ENGINEERING OFFICE WITH ANY ISSUE RELATING TO COVERS LESS THAN MINIMUM OR COVERS REQUIRING SHORING. CONCRETE CAPPING IS ONLY ACCEPTABLE WHERE NO OTHER SOLUTION IS POSSIBLE AND ONLY WHEN CERTAIN CRITERIA ARE MET AND ONLY WITH PG&E APPROVAL.



TELD CONDITIONS

TYPICAL PG&E PRIMARY BOX EXCAVATION DETAIL

 $4'-6" \times 8'-6"$

ELECTRIC CONDUIT MINIMUM BEND RADIUS

| CONDUIT DIAMETER | VERTICAL RADIUS | HORIZONTAL RADIUS) | l |
|------------------|-----------------|---------------------|---|
| 2" | 24" | 36" | |
| 3" | 24" | 36" | |
| 4" | 36" | 36" | |
| 5" | 36" | 60" | ı |
| | | | |

<u>NOTE:</u> 315° MAX BENDS IN ANY SECONDARY CONDUIT RUN 200' OR LESS. 300° MAX BENDS IN ANY PRIMARY CONDUIT RUN TYPICAL GAS METER REQUIREMENTS*

| METER TYPE | LOAD (SCFH) | DELIVERY PRESSURE** (PSIG) | PAD SIZE (INCHES) | MIN. WIDTH REQUIRED FOR METER "X" (INCHES) | DISTANCE FROM RISER TO FINISHED WALL (INCHES) | MIN. HOUSELINE STUB OUT (INCHES) |
|------------------------|------------------------|----------------------------------|-------------------------------------|--|---|--|
| TYPICAL RESIDENTIAL | 0-350 0-600 | 0.25 2 | N/A UNLESS USING FLEX-HOSE METER | 24 | 6 TO 9 | 4 |
| 400 TO 1000 CLASS | 351-1,400 601-2,400 | 0.25 2 | N/A UNLESS USING FLEX-HOSE METER | 30 | 6 TO 9 | 6 |
| 1.5M OR 3M ROTARY | 1,401-3,000 | APPROVED BY PG&E | 40 X 36 X 4 | 52 | 20 | VARIES |
| 5M OR 7M ROTARY | 3,001-7,000 | APPROVED BY PG&E | 78 X 36 X 4 | 90 | 20 | VARIES |
| 11M OR 16M ROTARY | 7,001-16,000 | APPROVED BY PG&E | 94 X 36 X 4 | 106 | 20 | VARIES |

*ACTUAL METER-SET CONFIGURATIONS MAY DIFFER DEPENDING ON FIELD CONDITIONS AND RESTRICTIONS. FOR GAS METER DETAILS, SEE SECTION 2 OF CURRENT <u>ELECTRIC & GAS SERVICE REQUIREMENTS</u> GREENBOOK |---X---BY PG&E. PG&E STANDARD METER SPACING REQUIREMENTS DO NOT INCLUDE CLEARANCE FOR EARTHQUAKE VALVES OR OTHER ADDITIONAL SAFETY EQUIPMENT. SEE NOTE 17 UNDER GENERAL NOTES ON SHEET JT-1. **DELIVERY PRESSURE TO BE CONFIRMED VIA BUILDING PLUMBING AND MECHANICAL PLANS. PG&E MAINTAINS SOLE AUTHORITY TO DETERMINE IF THE ELEVATED DELIVERY-PRESSURE SERVICE IS AVAILABLE AT A

SPECIFIC LOCATION.

GENERAL NOTES:

- JOINT TRENCH MUST BE INSTALLED ENTIRELY WITHIN AN EASEMENT. EASEMENTS FOR JOINT TRENCH SERVICE LATERALS WITHIN PROJECT ON PRIVATE PROPERTY ARE AT THE DISCRETION OF THE UTILITY COMPANIES.
- ALL DEPTHS AND RESULTING COVER REQUIREMENTS ARE MEASURED FROM FINAL GRADE.
- COVER, CLEARANCES, AND SEPARATION SHALL BE AS GREAT AS PRACTICABLE UNDER THE CIRCUMSTANCES, BUT UNDER NO CIRCUMSTANCES SHALL BE LESS THAN THE MINIMUM COVER, CLEARANCE, AND SEPARATION REQUIREMENTS SET FORTH IN GENERAL ORDER 128 AND 49CFR 192.321, 49CFR 192.325, AND 49CFR 192.327. ALL FACILITIES SHALL BI ANCHORED IN PLACE PRIOR TO COMPACTION, OR OTHER MEANS SHALL BE TAKEN TO ENSURE NO MOTION OF THE FACILITIES. DIMENSIONAL REQUIREMENTS FOR SHADING, LEVELING, AND BACKFILLING SHALL BE DETERMINED SUBSEQUENT
- TRENCH DIMENSIONS SHOWN ARE TYPICAL. TRENCH SIZES AND CONFIGURATIONS MAY VARY DEPENDING UPON OCCUPANCY AND/OR FIELD CONDITIONS. TRENCH SIZE AND CONFIGURATION MUST AT ALL TIMES BE CONSTRUCTED IN A MANNER THAT ENSURES PROPER CLEARANCES AND COVER REQUIREMENTS ARE MET. ANY "CHANGE" TO THE TRENCH WIDTH AND CONFIGURATIONS AS SHOWN IN THIS EXHIBIT MUST BE DESIGNED TO ENSURE THIS REQUIREMENT.
- IT IS PREFERRED TO HAVE NON-PG&E OWNED STREETLIGHTS AT A LEVEL OTHER THAN THE GAS OR ELECTRIC LEVEL. NON-PG&E OWNED STREETLIGHTS MAY BE AT THE ELECTRIC LEVEL OF THE TRENCH AS LONG AS MINIMUM CLEARANCES ARE PROVIDED AND COMPLY WITH ALL SPECIAL NOTES FOR A JOINT TRENCH WITH A SECOND ELECTRIC UTILITY.
- NON-UTILITY FACILITIES ARE NOT ALLOWED IN ANY JOINT UTILITY TRENCH, E.G., IRRIGATION CONTROL LINES, BUILDING FIRE ALARM SYSTEMS, PRIVATE TELEPHONE SYSTEMS, OUTDOOR ELECTRICAL CABLE, ETC.
- WHEN COMMUNICATION DUCTS ARE INSTALLED, A MINIMUM OF 12" RADIAL SEPARATION SHALL BE MAINTAINED FROM GAS FACILITIES. EXCEPTION: WITH MUTUAL AGREEMENT, WHEN 4-INCH DIAMETER OR SMALLER GAS PIPE IS INSTALLED, THE SEPARATION MAY BE REDUCED TO NOT LESS THAN 6 INCHES.
- . PROVIDE SEPARATION FROM TRENCH WALL AND OTHER FACILITIES SUFFICIENT TO ENSURE PROPER COMPACTION.
- MAINTAIN PROPER SEPARATION BETWEEN PG&E FACILITIES AND "WET" UTILITY LINES AS DESCRIBED IN UO STANDARD S5453. THE MINIMUM ALLOWABLE HORIZONTAL SEPARATION BETWEEN COMPANY FACILITIES AND "WET" FACILITIES IS WITH A MINIMUM 1' OF UNDISTURBED EARTH OR THE INSTALLATION OF A SUITABLE BARRIER BETWEEN THE FACILITIES. A 3' HORIZONTAL SEPARATION CANNOT BE ATTAINED BETWEEN "WET" UTILITIES AND COMPANY DRY FACILITIES, A VARIANCE MAY BE APPROVED BY THE LOCAL INSPECTION SUPERVISOR AND SUBMITTED TO THE SERVICE PLANNING SUPPORT PROGRAM MANAGER FOR APPROVAL. SEPARATIONS OF 1' OR LESS ARE NOT PERMISSIBLE AND WILL NOT BE ALLOWED. THE COMPANY MAY AGREE TO WAIVE THE MINIMUM 3' SEPARATION REQUIREMENT AT THE REQUEST OF AN APPLICANT IF WARRANTED AND THE NEED IS JUSTIFIED. THE REQUEST FOR A WAIVER MUST:
- BE MADE IN WRITING AND SUBMITTED TO THE COMPANY ADE DURING THE PLANNING AND DESIGN PHASE OF THE
- CLEARLY DESCRIBE THE CONDITIONS NECESSITATING THE WAIVER. INCLUDE A PROPOSED DESIGN, AND INCLUDE A DESIGN FOR A BARRIER BETWEEN THE "WET" UTILITIES AND COMPANY DRY FACILITIES IN THE EVENT 1' OF UNDISTURBED EARTH CANNOT BE MAINTAINED. NOTE: DRAIN LINES CONNECTED TO DOWNSPOUTS ON BUILDINGS ARE CONSIDERED A "WET" UTILITY FOR THE PURPOSES OF THIS STANDARD.
- IO. SEPARATIONS SHALL BE MAINTAINED AT ABOVE GROUND TERMINATION POINTS.
- 1. PROCEDURES FOR APPROVING NATIVE BACKFILL FOR SHADING OF PG&E GAS FACILITIES: RANDOM SOIL SAMPLES SHALL BE TAKEN FROM A MINIMUM OF 3 LOCATIONS PER 1,000' OF TRENCH. 100% OF THE SAMPLE MUST PASS THROUGH A 1/2" SIEVE AND 75% MUST PASS THROUGH A #4 SCREEN. ADDITIONAL SAMPLES MUST TAKEN IF EXISTING SOIL CONDITIONS CHANGE AND ARE TO BE TAKEN AT THE DISCRETION OF THE PG&E REPRESENTATIVE ON SITE.
- THE SOILS MUST NOT CONTAIN ANY ROCKS THAT HAVE SHARP EDGES OR THAT MAY OTHERWISE BE ABRASIVE. • THE SOILS MUST NOT CONTAIN CLODS LARGER THAN 1/2" IF TO BE USED AS SHADING, BEDDING, OR LEVELING
- COMPACTION REQUIREMENTS MUST MEET ANY APPLICABLE PG&E, FEDERAL, STATE, COUNTY, OR LOCAL REQUIREMENTS. AT NO TIME SHALL THE OVER SATURATION OF NATIVE SOILS BE USED TO ACHIEVE THESE REQUIREMENTS. THE SIEVES AND SCREENS SHALL BE
- 1/2" SIEVE: 8" DIAMETER BY 2" DEEP. STAINLESS STEEL MESH SCREEN. #4 SCREEN: 8" DIAMETER BY 2" DEEP, STAINLESS STEEL MESH SCREEN.
- 2. PROCEDURES FOR APPROVING NATIVE BACKFILL FOR SHADING AT PG&E ELECTRIC FACILITIES: • RANDOM SOIL SAMPLES SHALL BE TAKEN FROM A MINIMUM OF 3 LOCATIONS PER 1,000' OF TRENCH. ADDITIONAL
- SAMPLES MUST BE TAKEN IF EXISTING SOIL CONDITIONS CHANGE AND ARE TO BE TAKEN AT THE DISCRETION OF THE PG&E REPRESENTATIVE ON SITE SHADING MATERIAL CONTAINING LARGE ROCK, PAVING MATERIAL, CINDERS, SHARPLY ANGULAR SUBSTANCES, OR CORROSIVE MATERIAL SHALL NOT BE PLACED IN THE TRENCH WHERE SUCH MATERIAL MAY DAMAGE THE CONDUITS AND/OR PREVENT PROPER COMPACTION OVER OR AROUND THE CONDUITS
- NATIVE SOILS CONTAINING CLODS NOT TO EXCEED 6" IN DIAMETER MAY BE INCLUDED IN THE SHADING MATERIAL PROVIDED THE CLODS ARE READILY BREAKABLE BY HAND. NOTE: SOILS CONSISTING PRIMARILY OF ADOBE, HARD COMPACT
- (DENSE) CLAY, AND BAY MUDS SHALL NOT BE USED AS SHADING MATERIAL NO TIME SHALL THE OVER SATURATION OF NATIVE SOILS BE USED TO ACHIEVE THESE REQUIREMENTS. REFER TO ENGINEERING DOCUMENT 062288, ITEM 13 ON PAGE 2.
- I.3. COMPETENT NATIVE SOILS ARE PREFERRED TO BE USED FOR SHADING, BEDDING, AND BACKFILLING THROUGHOUT THE
- WHERE NATIVE SOILS EXCEED 1/2" MINUS AND/OR WHERE GAS IS TO BE PLACED AT THE BOTTOM OF A TRENCH IN AREAS THAT EXCEED 1/2" MINUS SOIL CONDITIONS. OR WHERE THE BOTTOM OF A TRENCH IS CONSIDERED TO CONSIS OF HARD PAN, PG&E APPROVED 1/2" MINUS IMPORT MATERIAL SHALL BE USED FOR SHADING AND/OR BEDDING OF GAS
- PG&E APPROVED IMPORT MATERIAL IS PER CGT ENGINEERING GUIDELINE 4123. • IF A LEVELING COURSE IS REQUIRED FOR GAS FACILITIES, THE USE OF NATIVE SOILS IS PREFERRED, BUT IF 1/2" MINUS CONDITIONS ARE NOT ATTAINABLE WITH THE NATIVE SOILS, THEN THE USE OF PG&E APPROVED IMPORT MATERIALS IS REQUIRED. BEDDING UNDER GAS FACILITIES WILL BE A MINIMUM OF 2" OF COMPACTED 1/2" MINUS NATIVE SOILS OR PG&F APPROVED IMPORT MATERIAL
- FOR ELECTRIC FACILITIES, REFER TO NOTE 12. THIS APPLIES TO LEVELING COURSES AS WELL AS SHADING. • THE MINIMUM PG&E APPROVED BEDDING MATERIAL MAY BE INCREASED AT THE DISCRETION OF PG&E WHEN WARRANTED
- BY EXISTING FIELD CONDITIONS (E.G., ROCKY SOILS, HARD PAN, ETC.).
 THE USE OF ANY IMPORTED MATERIAL FOR BACKFILLING PURPOSES SHALL BE LIMITED TO THOSE SITUATIONS WHEN NATIVE SOILS DO NOT ALLOW FOR REQUIRED COMPACTION.
- 14. THE APPLICANT IS RESPONSIBLE FOR THE REMOVAL OF EXCESS SPOIL AND ASSOCIATED COSTS.
- 15. SEPARATION BETWEEN GAS FACILITIES AND ELECTRIC FACILITIES MAY BE REDUCED TO 6" WHEN CROSSING.
- 6. SERVICE SADDLES ARE THE PREFERRED SERVICE FITTINGS FOR USE THROUGHOUT THE JOINT TRENCH PROJECT. ALL PROJECTS WILL BE DESIGNED AND ESTIMATED USING SERVICE SADDLES. HOWEVER, SERVICE TEES MAY BE USED IF ALL CLEARANCES, SEPARATION, AND COVERAGE REQUIREMENTS ARE MAINTAINED.
- 7. CONTRACTOR TO INCREASE METER SPACING AS NECESSARY WHEN EARTHQUAKE VALVES OR OTHER ADDITIONAL SAFETY EQUIPMENT ARE REQUIRED. EARTHQUAKE VALVES ARE REQUIRED IN SOME AREAS AND ARE NOT PART OF PG&E/RADIUS SCOPE. THIS INFORMATION CAN BE FOUND ON BUILDING MECHANICAL ENGINEER'S PLANS. PG&E STANDARD METER SPACING REQUIREMENTS DO NOT INCLUDE CLEARANCE FOR EARTHQUAKE VALVES.

TRANSFORMER CLEARANCE REQUIREMENTS:

- ABOVE ANY THREE PHASE PAD-MOUNTED TRANSFORMER LOCATION (EXCEPT MINI THREE PHASE), MAINTAIN 30' MINIMUM UNOBSTRUCTED OVERHEAD CLEARANCE OVER TRANSFORMER PAD.
- ABOVE ANY OTHER TRANSFORMER LOCATION, MAINTAIN 20' MINIMUM UNOBSTRUCTED OVERHEAD CLEARANCE OVER TRANSFORMER VAULT/PAD.

GAS PIPELINE UNDERGROUND WARNING TAPE NOTES:

A WARNING TAPE IS TO BE INSTALLED IN OPEN TRENCH INSTALLATION OVER GAS PIPELINES IN BOTH TRANSMISSION AND DISTRIBUTION FACILITIES. THIS INCLUDES TRENCHES, BELL HOLES, EXCAVATIONS FOR REPAIR PURPOSES AND RISER REPLACEMENTS. THE WARNING TAPE IS INTENDED FOR EXCAVATOR DIGGING IN THE "TOLERANCE ZONE" TO STRIKE THE WARNING TAPE PRIOR THAN THE PIPELINE. WHEN THE WARNING TAPE IS EXPOSED AND GRABBED WITH EXCAVATING EQUIPMENT, IT STRETCHES WITHOUT BREAKING, THUS ALERTING THE EXCAVATOR OF THE GAS FACILITY BELOW.

INSTALL 6" WIDE WARNING TAPE ABOVE THE GAS PIPELINE AT LEAST 12" BELOW GRADE, AND NO CLOSER THAN 12" FROM THE PIPE. INSTALLATION SHOULD PROVIDE THE GREATEST DISTANCE BETWEEN THE PIPELINE AND THE TAPE AS POSSIBLE. INSTALL THE TAPE ALONG THE LENGTH OF THE EXCAVATION. ENSURE THAT THE TAPE OVERLAPS WHEN TWO OR MORE PIECES OF TAPE ARE USED. EXCEPTION: WHEN A JOINT TRENCH DESIGN DOES NOT ALLOW FOR INSTALLMENT OF WARNING TAPE WITHIN THE "WARNING TAPE INSTALLATION ZONE", INSTALL THE WARNING TAPE A MINIMUM OF 6" ABOVE

THE GAS PIPELINE, AND BELOW THE FACILITY ABOVE THE PIPE.

WARNING TAPE SHALL BE BRIGHTLY COLORED YELLOW AND MARKED "CAUTION: GAS LINE BURIED BELOW" OR MARKED WITH A SIMILAR NOTIFICATION.

. WARNING TAPE SHALL BE STORED IN SUCH A MANNER THAT LIMITS ULTRAVIOLET (UV) EXPOSURE.

PG&E PM#S: **ELECTRIC:**

DESIGN CHANGE COMPONENT ANY CHANGES TO THIS DESIGN

TYPICAL DETAIL

GAS PIPELINE UNDERGROUND

WARNING TAPE INSTALLATION (N.T.S.)

FINISHED GRADE

♦ WARNING TAPE

INSTALLATION ZON

←GAS PIPELINE

-WARNING TAPE

MUST BE APPROVED BY

12" MIN.

12" MIN.

PG&E GAS ADE

CONSTRUCTION NOTES:

- ALL TRENCHING, BACKFILLING AND INSTALLATION BY CONTRACTOR MUST COMPLY WITH PG&E UO STANDARD S5453 (EFFECTIVE DATE 7-5-2006).
- ALL WORK MUST COMPLY WITH P.G. & E., TELEPHONE, C.A.T.V., STANDARDS AND PRACTICES. ALL WORK MUST BE INSPECTED AND APPROVED BY RESPECTIVE INSPECTORS. RANDOM SOIL SAMPLES SHALL BE TAKEN FROM A MINIMUM OF THREE LOCATIONS PER 1,000' OF TRENCH. 100% OF THE SAMPLE MUST PASS THROUGH A 1/6" SIEVE AND 75% MUST PASS THROUGH A #4 SCREEN. ADDITIONAL SAMPLES MUST BE TAKEN IF EXISTING SOIL CONDITIONS CHANGE AND IS TO BE AT THE DISCRETION OF THE PG&E REPRESENTATIVE ON SITE. THE SOILS MUST NOT CONTAIN ANY ROCKS THAT HAVE SHARP EDGES OR THAT MAY OTHERWISE BE ABRASIVE. THE SOILS MUST NOT CONTAIN CLODS LARGER THAN ½" IF TO BE USED AS SHADING, BEDDING OR LEVELING MATERIALS. COMPACTION REQUIREMENTS MUST MEET ANY APPLICABLE P.G.& E. FEDERAL, STATE, COUNTY OR LOCAL REQUIREMENTS. ANY NATIVE SOILS OR IMPORT MATERIALS USED MUST NOT HINDER THOSE EFFORTS.
- BACKFILL SHALL BE APPROVED BY THE UTILITY COMPANIES AND THE CITY. COMPACTION WILL BE TESTED AND PASSED BY THE SOILS ENGINEER.
- IF SOIL IS NOT ROCK FREE. ADD 4" DEPTH OF TRENCH FOR SAND BEDDING.
- VERIFY SPLICE BOX EXCAVATION SIZES WITH SUPPLIER(S).

PAYMENT WILL BE CONSIDERED FOR CROSSING OTHER SYSTEMS.

- THE TRENCHING CONTRACTOR SHALL COORDINATE THE UTILITY COMPANIES' INSTALLATION. THE TRENCHING CONTRACTOR TO PLACE CONNECTING CONDUIT WITHIN 5' OF BUILDING EXTERIOR WALL
- CONTRACTOR SHALL MAKE HIMSELF FAMILIAR WITH THE PROJECT IMPROVEMENT PLANS AND CONDUCT HIS WORK
- IT IS THE TRENCHING CONTRACTOR'S RESPONSIBILITY TO PROTECT IN PLACE ALL EXISTING FACILITIES. NO EXTRA
- RADIUS DESIGN ASSUMES NO RESPONSIBILITY FOR THE PROJECT CONDITIONS. THESE DRAWINGS WERE PREPARED USING DATA SUPPLIED BY PG&E, TELEPHONE, C.A.T.V., IMPROVEMENT PLANS AND THE CITY'S VARIOUS "AS BUILT" INFORMATION.
- CONTRACTOR WILL COMPLY WITH ALL LAWS, ORDINANCES AND REGULATIONS. CONTRACTOR SHALL BE FAMILIAR WITH O.S.H.A.. INDUSTRIAL SAFETY ORDERS AND SHALL CONDUCT HIS WORK ACCORDINGLY. WHEN WORKING NEAR ENERGIZED OR "HOT" EQUIPMENT, THE UTILITY OWNER SHALL BE NOTIFIED TO SUPPLY THE APPROPRIATE MAN POWER. PUBLIC SAFETY AND TRAFFIC CONTROL MEASURES ARE THE CONTRACTOR'S RESPONSIBILITY.

IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PHYSICALLY REVIEW THE PROJECT PRIOR TO SUBMITTING HIS BID.

- I. THE CONTRACTOR SHALL PROTECT CONSTRUCTION STAKING. HE SHALL COORDINATE STAKING WITH THE PROJECT'S CIVIL
- 2. CONTRACTOR SHALL NOTIFY UNDERGROUND SERVICE ALERT (USA) TWO WORKING DAYS PRIOR TO START OF WORK.

3. CONTRACTOR SHALL NOTIFY INSPECTORS OF ANY POTENTIAL CONFLICTS PRIOR TO START OF WORK.

- 4. THIS PLAN IS TO BE USED FOR SOLE PURPOSE OF DIGGING THE JOINT TRENCH. SEE PG&E, AT&T. AND COMCAST PLANS FOR EXACT SIZE AND NUMBER OF CONDUITS INSTALLED IN THE JOINT TRENCH. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ENSURE THE CORRECT NUMBER, SIZE AND TYPES OF CONDUITS ARE INSTALLED PER THE ENGINEERED PLANS BY EACH UTILITY COMPANY.
- NOTE PLANS ISSUED AT THE PRE-CONSTRUCTION MEETING MAY BE SUBJECT TO REVISIONS, IF FINAL PLANS FROM EACH UTILITY COMPANY WERE NOT AVAILABLE AT THE START OF CONSTRUCTION.
- WATER, SEWER, DRAINS, SANITARY WASTE, FUELS (INCLUDING DIESEL AND GASOLINE), OIL, PROPANE AND OTHER VOLATILE HEAVIER THAN AIR GASES, SPRINKLER, IRRIGATION, STEAM AND OTHER "WÉT" FACILITIES SHALL MAINTAIN A MINIMUM OF THREE FEET FROM THE NEAREST OUTER SURFACE OF PG&E FACILITIES WITH NO LESS THAN ONE FOOT OF EARTH (SOIL BARRIER) BETWEEN THE ADJACENT SIDES OF THE INDIVIDUAL TRENCHES.
- . IN THE EXTRAORDINARY CASE THAT THE MINIMUM THREE FOOT HORIZONTAL SEPARATION CANNOT BE ATTAINED BETWEEN "WET" UTILITIES AND COMPANY DRY FACILITIES, A VARIANCE MAY APPROVED BY THE LOCAL INSPECTION SUPERVISOR AND SUBMITTED TO SERVICE PLANNING SUPPORT PROGRAM MANAGER FOR APPROVAL.
- 18. ALL METER PANELS: INDIVIDUAL, RESIDENTIAL, OR NONRESIDENTIAL APPLICANTS WITH A METER PANEL RATING OF ANY SIZE, INSTALLED INSIDE A METÉR ROOM OR ÓTHER STRUCTURE, MUST FOLLOW ALL OF THE REQUIREMENTS DESCRIBED A. INSTALL, OWN, AND MAINTAIN A SEPARATE, NOMINAL, 2-INCH DIAMETER CONDUIT WITH PULL TAPE INSIDE. THE
- CONDUIT AND PULL TAPE MUST EXTEND FROM THE OUTSIDE SURFACE OF THE BUILDING AND TERMINATE OUTSIDE THE METER PANEL OR SWITCHBOARD AT THE TOP OF THE METER SECTION. B. ENSURE THE 2-INCH DIAMETER CONDUIT AND PULL TAPE EXIT THE OUTSIDE OF THE BUILDING A MINIMUM OF 8 FEET AND A MAXIMUM OF 10 FEET ABOVE GROUND. THE OPEN END OF THE CONDUIT THAT IS EXPOSED TO THE OUTSIDE
- C. DO NOT USE THE CONDUIT. THE CONDUIT IS FOR PG&E'S METERING EQUIPMENT ONLY THIS JOINT TRENCH PLAN WAS PREPARED BASED ON TOPOGRAPHICAL SURVEY AS PROVIDED BY A CIVIL ENGINEER. TH CONTRACTOR IS CAUTIONED THAT EXPLORATORY WORK IS NECESSARY TO DETERMINE THE ACTUAL LOCATION OF ANY EXISTING UTILITY. RADIUS STRONGLY RECOMMENDS THAT ALL UTILITIES BE PHYSICALLY LOCATED ON THE SITE BEFORE

THE ONSET OF SITE WORK. SUBSTRUCTURE LOCATIONS MAY REQUIRE FIELD ADJUSTMENT TO COMPENSATE FOR ACTUAL

SUBSTRUCTURE VERIFICATION STAMP

EXISTING UTILITY LOCATIONS.

SIGN AND DATE DRAWING.

SIGNED .

MUST HAVE A REMOVABLE, TEMPORARY CAP OR PLUG.

<u>DEVELOPER</u> PLEASE NOTE AND SIGN

LL PG&E ENCLOSURES AND BOXES HAVE BEEN SET TO RADE ACCORDING TO GRADE STAKES PROVIDED BY EVELOPERS ENGINEER. ALL COSTS TO RELOCATE OR -ADJUST BOXES AT A LATER DATE WILL BE BILLED TO E DEVELOPER. PLEASE HAVE YOUR SUPT. VERIFY THE

CORRECT GRADE OF ALL ENCLOSURES OR BOXES, AND

CITY OF SAN JOSE, CALIFORNIA DEPARTMENT OF PÚBLIC WORKS APPROVED FOR UTILITY TRENCH WORK WITHIN CITY RIGHT-OF-WAY ONLY PROJECT ENGINEER PERMIT NUMBER EXPIRATION DATE

| | JTILITY APPROVALS | |
|----------------|-------------------|------|
| UTILITY | APPROVED BY | DATE |
| PG&E ELECTRIC | | |
| PG&E GAS | | |
| AT&T (PHONE) | | |
| COMCAST (CATV) | | |
| CITY ENGINEER | | |

JOINT TRENCH TITLE SHEET

OVERALL

JT—B.3 THRU B.20 JOINT TRENCH INTENT

| 1011 | QA REV | <u>USE ONLY</u> TEW |
|-----------|----------|------------------------|
| | INITIALS | REVIEW DATE |
| INTENT | | |
| COMPOSITE | | |
| PRE-CON | | |
| PRE-CON | | |
| | I | |

No. 26429

Exp. 03-31-22

20-1072 N.T.S.

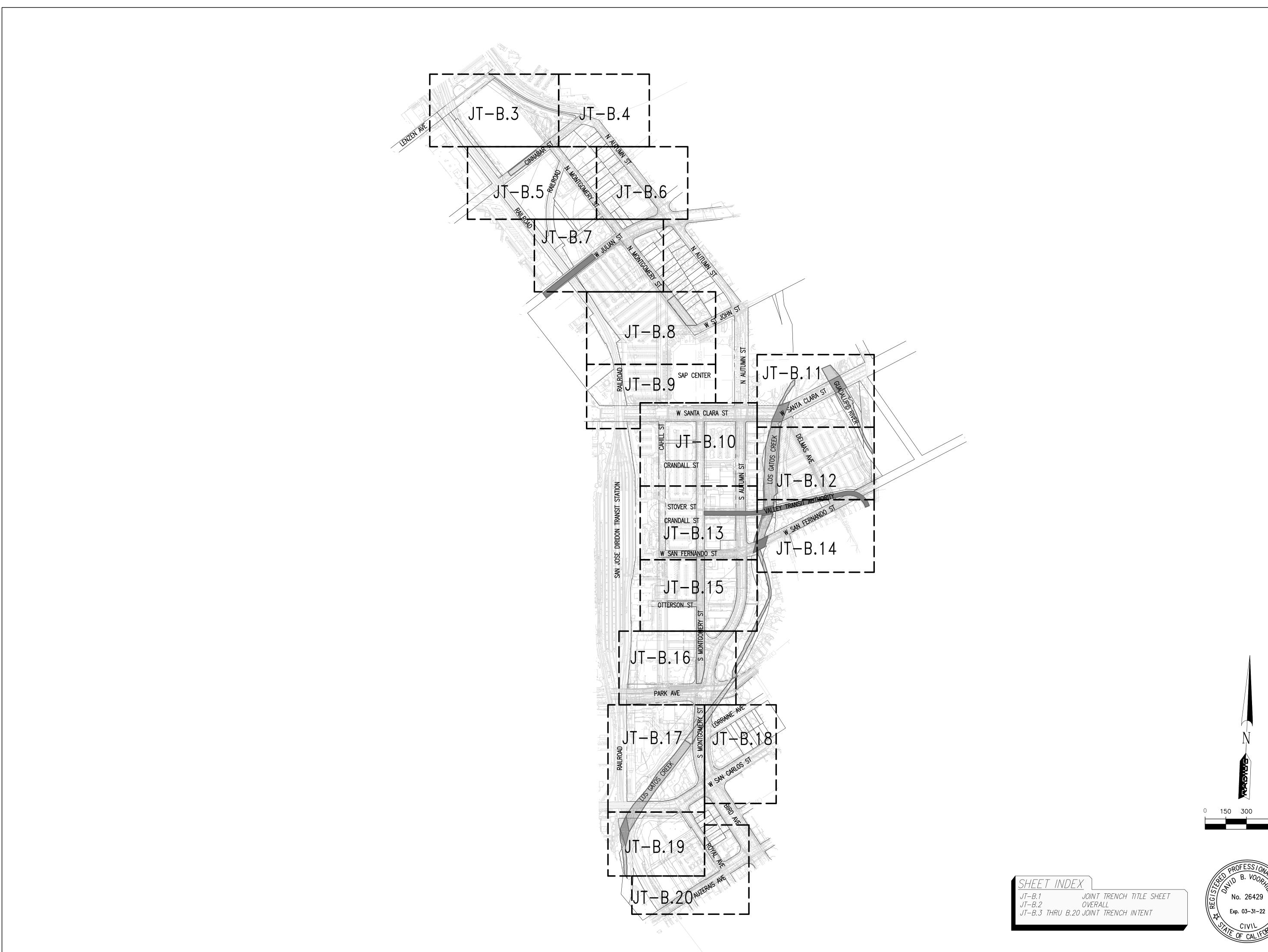
NCH TITLE SHEET FOWN WEST E, CALIFORNIA

r TRI WN N JO

PROJECT MANAGER: SCOTT HARDESTER HENRY NGUYEN

> CRAIG BURTON AST UPDATED: 03-19-2021

RAWING NUMBER: JT-B.1



OVERALL DOWNTOWN SAN JOSE, CALIF

PROJECT NUMBER: 20-1072

SCALE:

1" = 300'

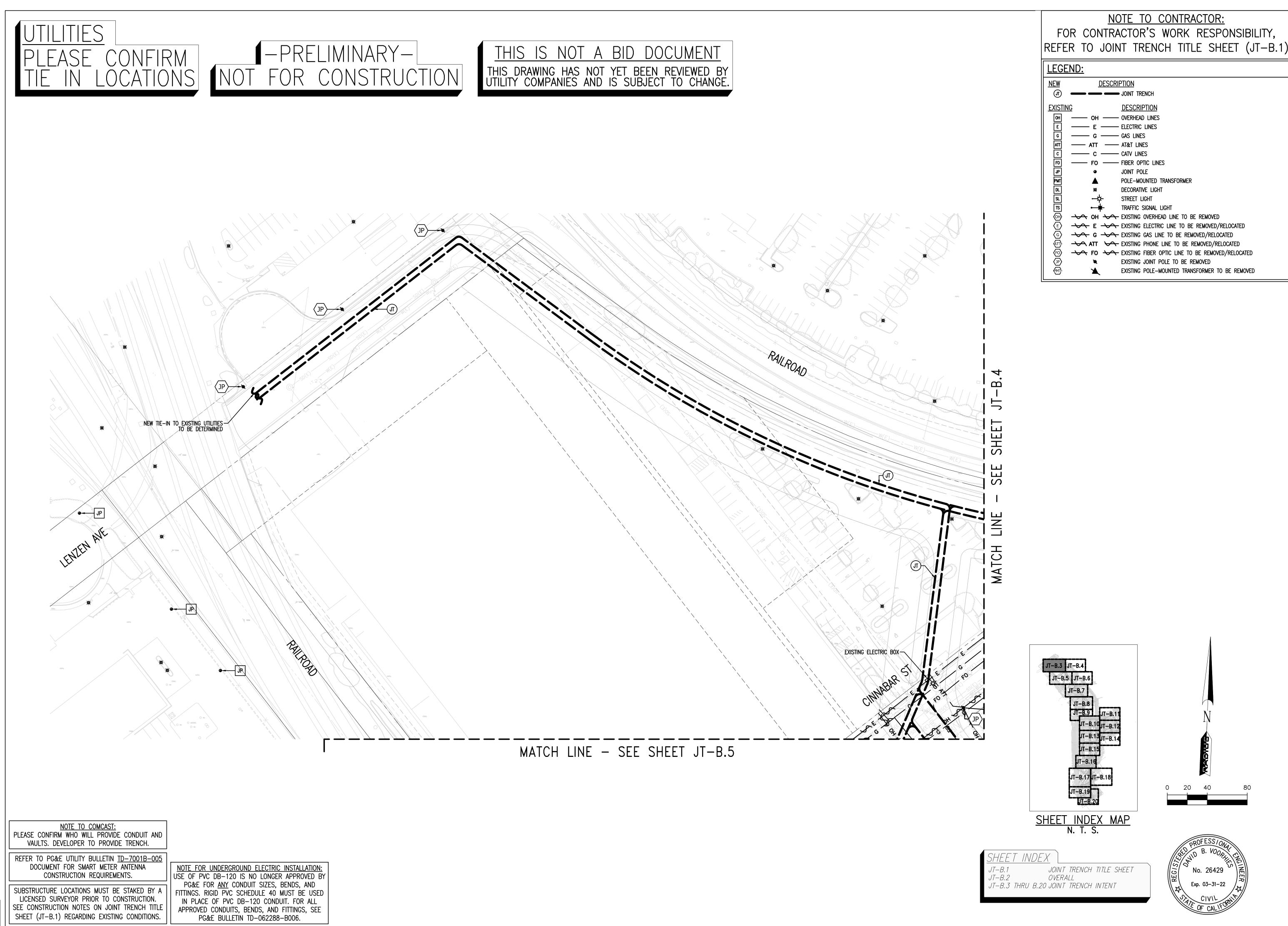
PROJECT MANAGER:

SCOTT HARDESTER

DRAWN BY: HENRY NGUYEN

CHECKED BY:
CRAIG BURTON LAST UPDATED:
03-19-2021
DRAWING NUMBER:

JT-B.2
SHEET: 2 OF: 20



PROJECT NUMBER: 20-1072

1'' = 40'

PROJECT MANAGER:
SCOTT HARDESTER

HENRY NGUYEN

CRAIG BURTON

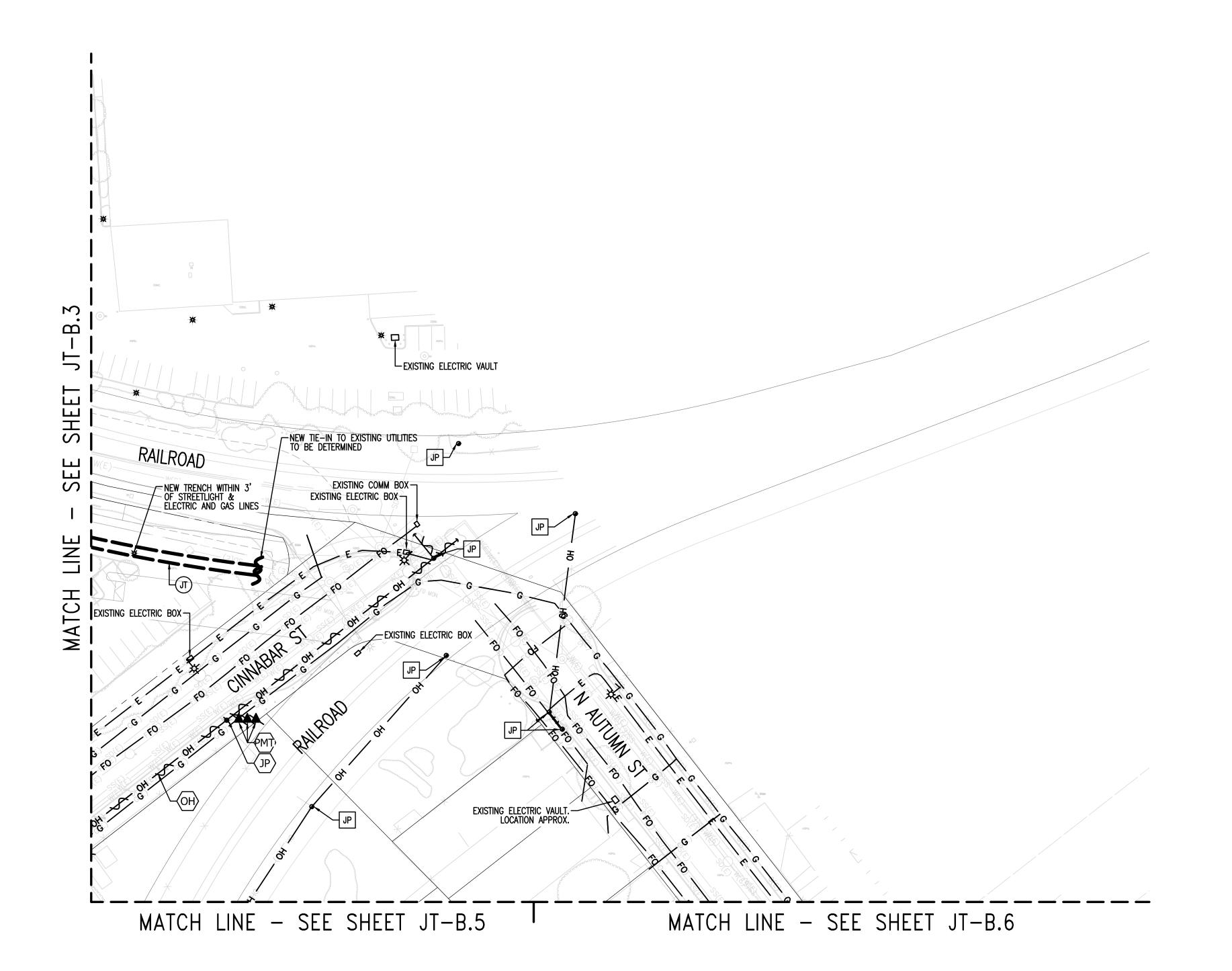
03-19-2021

JT-B.3
SHEET: 3 OF: 20

RAWING NUMBER:

-PRELIMINARY-NOT FOR CONSTRUCTION

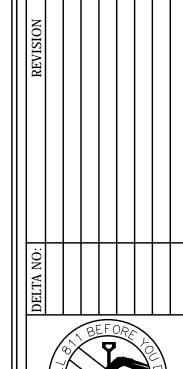
THIS IS NOT A BID DOCUMENT THIS DRAWING HAS NOT YET BEEN REVIEWED BY UTILITY COMPANIES AND IS SUBJECT TO CHANGE.



NOTE TO CONTRACTOR: FOR CONTRACTOR'S WORK RESPONSIBILITY,

REFER TO JOINT TRENCH TITLE SHEET (JT-B.1)

LEGEND: **DESCRIPTION** <u>NEW</u> JOINT TRENCH — OH — OVERHEAD LINES JOINT POLE POLE-MOUNTED TRANSFORMER DECORATIVE LIGHT STREET LIGHT TRAFFIC SIGNAL LIGHT OH EXISTING OVERHEAD LINE TO BE REMOVED E EXISTING ELECTRIC LINE TO BE REMOVED/RELOCATED EXISTING GAS LINE TO BE REMOVED/RELOCATED ATT SEXISTING PHONE LINE TO BE REMOVED/RELOCATED FO EXISTING FIBER OPTIC LINE TO BE REMOVED/RELOCATED EXISTING JOINT POLE TO BE REMOVED EXISTING POLE-MOUNTED TRANSFORMER TO BE REMOVED



PROJECT NUMBER: 20-1072

1'' = 40'PROJECT MANAGER: SCOTT HARDESTER

HENRY NGUYEN CRAIG BURTON

03-19-2021 RAWING NUMBER: JT-B.4

SHEET INDEX MAP N. T. S. JOINT TRENCH TITLE SHEET OVERALL JT-B.3 THRU B.20 JOINT TRENCH INTENT

NOTE TO COMCAST: PLEASE CONFIRM WHO WILL PROVIDE CONDUIT AND VAULTS. DEVELOPER TO PROVIDE TRENCH.

REFER TO PG&E UTILITY BULLETIN <u>TD-7001B-005</u> DOCUMENT FOR SMART METER ANTENNA CONSTRUCTION REQUIREMENTS.

SUBSTRUCTURE LOCATIONS MUST BE STAKED BY A LICENSED SURVEYOR PRIOR TO CONSTRUCTION. SEE CONSTRUCTION NOTES ON JOINT TRENCH TITLE SHEET (JT-B.1) REGARDING EXISTING CONDITIONS.

USE OF PVC DB-120 IS NO LONGER APPROVED BY PG&E FOR ANY CONDUIT SIZES, BENDS, AND FITTINGS. RIGID PVC SCHEDULE 40 MUST BE USED IN PLACE OF PVC DB-120 CONDUIT. FOR ALL APPROVED CONDUITS, BENDS, AND FITTINGS, SEE PG&E BULLETIN TD-062288-B006. UTILITIES

-PRELIMINARY-NOT FOR CONSTRUCTION

THIS IS NOT A BID DOCUMENT THIS DRAWING HAS NOT YET BEEN REVIEWED BY UTILITY COMPANIES AND IS SUBJECT TO CHANGE.

MATCH LINE - SEE SHEET JT-B.3 MATCH LINE - SEE SHEET JT-B.4 -EXISTING ELECTRIC METER -NEW TRENCH WITHIN 3' OF ELECTRIC VAULTS EXISTING ELECTRIC VAULT -TO BE RELOCATED B.6 NEW TIE-IN TO EXISTING UTILITIES TO BE DETERMINED EXISTING ELECTRIC TRANSFORMER. LOCATAION APPROX. EXISTING UTILITY / EXISTING ELECTRIC VAULT SHE EXISTING COMCAST VAULT. SEE /[JP] RAIRON JP -EXISTING ELECTRIC METER.— LOCATION APPROX.

NOTE TO CONTRACTOR: FOR CONTRACTOR'S WORK RESPONSIBILITY, REFER TO JOINT TRENCH TITLE SHEET (JT-B.1)

LEGEND: **DESCRIPTION** JOINT TRENCH — OH —— OVERHEAD LINES JOINT POLE POLE-MOUNTED TRANSFORMER STREET LIGHT TRAFFIC SIGNAL LIGHT OH EXISTING OVERHEAD LINE TO BE REMOVED E EXISTING ELECTRIC LINE TO BE REMOVED/RELOCATED EXISTING GAS LINE TO BE REMOVED/RELOCATED EXISTING PHONE LINE TO BE REMOVED/RELOCATED FO EXISTING FIBER OPTIC LINE TO BE REMOVED/RELOCATED

EXISTING JOINT POLE TO BE REMOVED

JOINT TRENCH TITLE SHEET

OVERALL

JT-B.3 THRU B.20 JOINT TRENCH INTENT

EXISTING POLE-MOUNTED TRANSFORMER TO BE REMOVED

ROJECT NUMBER: 20-1072

1'' = 40'PROJECT MANAGER: SCOTT HARDESTER

HENRY NGUYEN CRAIG BURTON

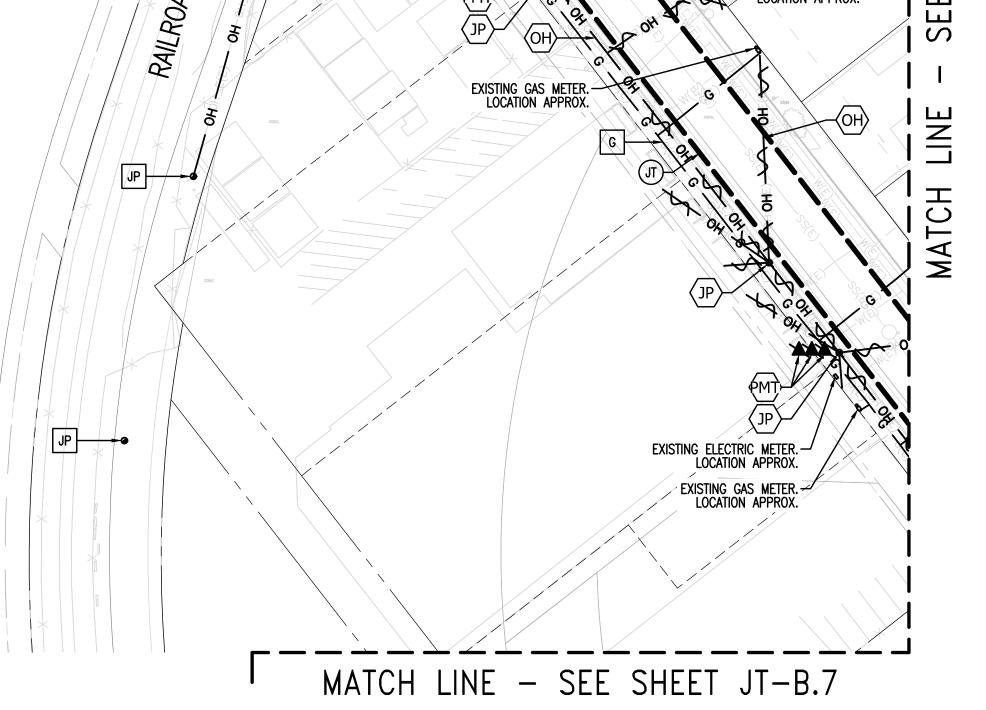
03-19-2021 RAWING NUMBER: JT-B.5
5 OF: 20

NOTE TO COMCAST: PLEASE CONFIRM WHO WILL PROVIDE CONDUIT AND VAULTS. DEVELOPER TO PROVIDE TRENCH.

REFER TO PG&E UTILITY BULLETIN <u>TD-7001B-005</u> DOCUMENT FOR SMART METER ANTENNA CONSTRUCTION REQUIREMENTS.

SUBSTRUCTURE LOCATIONS MUST BE STAKED BY A LICENSED SURVEYOR PRIOR TO CONSTRUCTION.
SEE CONSTRUCTION NOTES ON JOINT TRENCH TITLE SHEET (JT-B.1) REGARDING EXISTING CONDITIONS

NOTE FOR UNDERGROUND ELECTRIC INSTALLATION: USE OF PVC DB-120 IS NO LONGER APPROVED BY PG&E FOR <u>ANY</u> CONDUIT SIZES, BENDS, AND FITTINGS. RIGID PVC SCHEDULE 40 MUST BE USED IN PLACE OF PVC DB-120 CONDUIT. FOR ALL APPROVED CONDUITS, BENDS, AND FITTINGS, SEE PG&E BULLETIN TD-062288-B006.

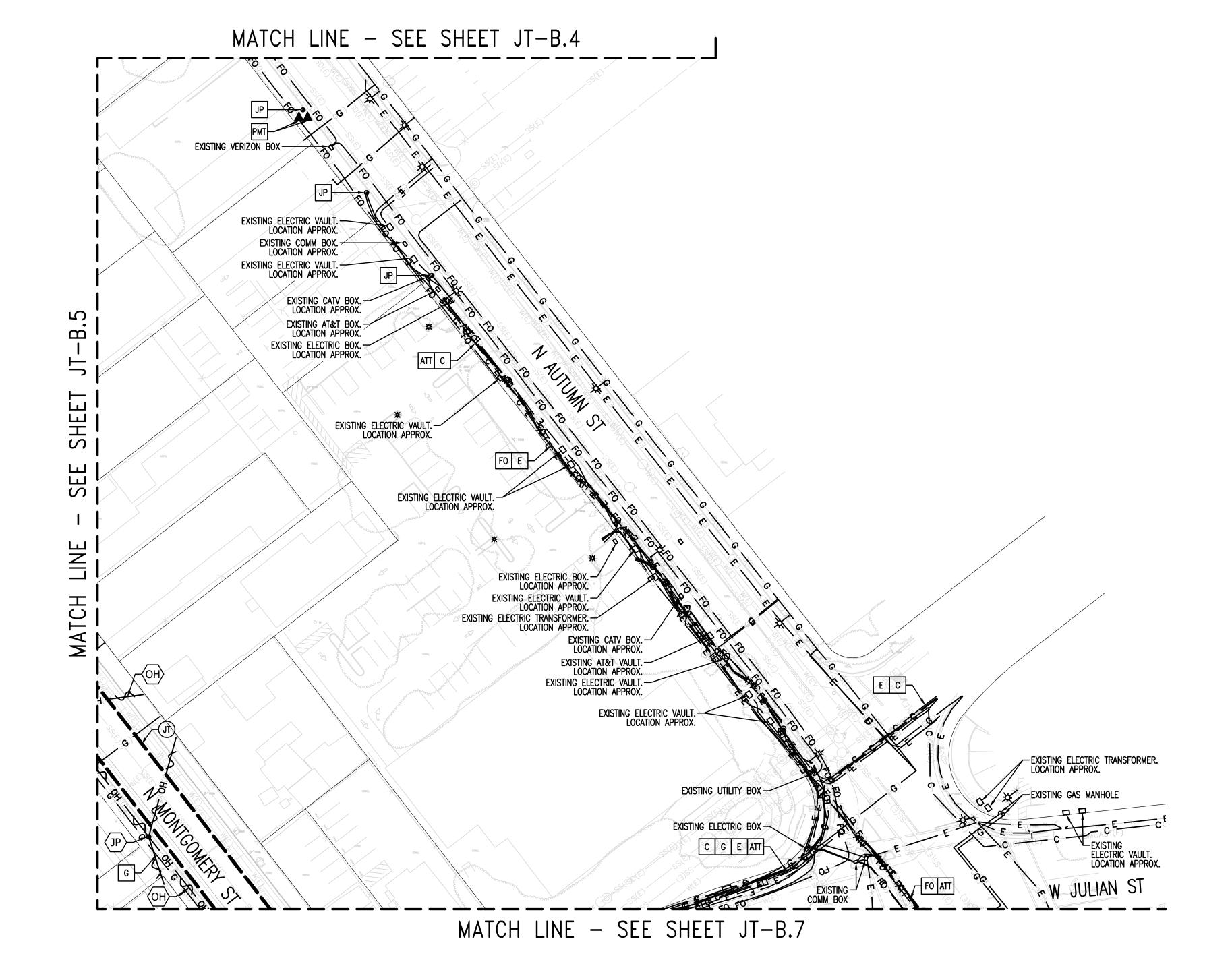


SHEET INDEX MAP N. T. S.

UTILITIES

-PRELIMINARY-NOT FOR CONSTRUCTION

THIS IS NOT A BID DOCUMENT THIS DRAWING HAS NOT YET BEEN REVIEWED BY UTILITY COMPANIES AND IS SUBJECT TO CHANGE.



NOTE TO CONTRACTOR: FOR CONTRACTOR'S WORK RESPONSIBILITY, REFER TO JOINT TRENCH TITLE SHEET (JT-B.1) LEGEND: **DESCRIPTION** <u>NEW</u> JOINT TRENCH — OH — OVERHEAD LINES — FO — FIBER OPTIC LINES JOINT POLE POLE-MOUNTED TRANSFORMER DECORATIVE LIGHT STREET LIGHT TRAFFIC SIGNAL LIGHT OH EXISTING OVERHEAD LINE TO BE REMOVED

E EXISTING ELECTRIC LINE TO BE REMOVED/RELOCATED

ATT SEXISTING PHONE LINE TO BE REMOVED/RELOCATED FO EXISTING FIBER OPTIC LINE TO BE REMOVED/RELOCATED EXISTING JOINT POLE TO BE REMOVED

EXISTING GAS LINE TO BE REMOVED/RELOCATED

EXISTING POLE-MOUNTED TRANSFORMER TO BE REMOVED

PROJECT NUMBER: 20-1072

1" = 40'PROJECT MANAGER: SCOTT HARDESTER

HENRY NGUYEN CRAIG BURTON

03-19-2021 RAWING NUMBER:

JT-B.6
6 OF: 20

SHEET INDEX MAP N. T. S.

JOINT TRENCH TITLE SHEET

OVERALL

JT-B.3 THRU B.20 JOINT TRENCH INTENT

NOTE TO COMCAST: PLEASE CONFIRM WHO WILL PROVIDE CONDUIT AND VAULTS. DEVELOPER TO PROVIDE TRENCH.

REFER TO PG&E UTILITY BULLETIN <u>TD-7001B-005</u> DOCUMENT FOR SMART METER ANTENNA CONSTRUCTION REQUIREMENTS.

SUBSTRUCTURE LOCATIONS MUST BE STAKED BY A LICENSED SURVEYOR PRIOR TO CONSTRUCTION. SEE CONSTRUCTION NOTES ON JOINT TRENCH TITLE SHEET (JT-B.1) REGARDING EXISTING CONDITIONS

NOTE FOR UNDERGROUND ELECTRIC INSTALLATION: USE OF PVC DB-120 IS NO LONGER APPROVED B PG&E FOR <u>ANY</u> CONDUIT SIZES, BENDS, AND FITTINGS. RIGID PVC SCHEDULE 40 MUST BE USED IN PLACE OF PVC DB-120 CONDUIT. FOR ALL APPROVED CONDUITS, BENDS, AND FITTINGS, SEE PG&E BULLETIN TD-062288-B006.

UTILITIES

PLEASE CONFIRM
TIE IN LOCATIONS
NOT FOR CONSTRUCTION

THIS IS NOT A BID DOCUMENT THIS DRAWING HAS NOT YET BEEN REVIEWED BY UTILITY COMPANIES AND IS SUBJECT TO CHANGE.

MATCH LINE - SEE SHEET JT-B.5 MATCH LINE - SEE SHEET JT-B.6 ELECTRIC BOX EXISTING TRAFFIC -SIGNAL BOX EXISTING COMM BOX-EXISTING ELECTRIC BOX -EXISTING AT&T BOX-EXISTING GAS VALVE. — LOCATION APPROX. EXISTING JOINT POLE EXISTING AT&T BOX.-LOCATION APPROX. EXISTING JOINT POLE EXISTING ELECTRIC VAULT. -LOCATION APPROX. EXISTING MCI MANHOLE. LOCATION APPROX. NEW TRENCH WITHIN 3' OF DRY UTILITIES. EXISTING CSJ COMM BOX-EXISTING ELECTRIC VAULT -EXISTING UTILITY BOX EXISTING ELECTRIC VAULT EXISTING SBC VAULT EXISTING UTILITY BOX.-LOCATION APPROX. JP -EXISTING UTILITY BOX.— LOCATION APPROX. -EXISTING UTILITY VAULT

LEGEND: DESCRIPTION JOINT TRENCH — OH — OVERHEAD LINES JOINT POLE POLE-MOUNTED TRANSFORMER STREET LIGHT TRAFFIC SIGNAL LIGHT OH EXISTING OVERHEAD LINE TO BE REMOVED E EXISTING ELECTRIC LINE TO BE REMOVED/RELOCATED EXISTING GAS LINE TO BE REMOVED/RELOCATED EXISTING PHONE LINE TO BE REMOVED/RELOCATED FO SISTING FIBER OPTIC LINE TO BE REMOVED/RELOCATED EXISTING JOINT POLE TO BE REMOVED EXISTING POLE-MOUNTED TRANSFORMER TO BE REMOVED

NOTE TO CONTRACTOR:

FOR CONTRACTOR'S WORK RESPONSIBILITY,

REFER TO JOINT TRENCH TITLE SHEET (JT-B.1)

ROJECT NUMBER: 20-1072

1'' = 40'

PROJECT MANAGER: SCOTT HARDESTER

HENRY NGUYEN CRAIG BURTON

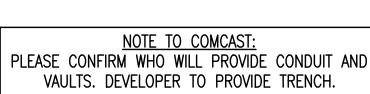
03-19-2021 RAWING NUMBER: JT-B.7

VAULTS. DEVELOPER TO PROVIDE TRENCH.

REFER TO PG&E UTILITY BULLETIN <u>TD-7001B-005</u> DOCUMENT FOR SMART METER ANTENNA CONSTRUCTION REQUIREMENTS.

SUBSTRUCTURE LOCATIONS MUST BE STAKED BY A LICENSED SURVEYOR PRIOR TO CONSTRUCTION. SEE CONSTRUCTION NOTES ON JOINT TRENCH TITLE SHEET (JT-B.1) REGARDING EXISTING CONDITIONS.

APPROVED CONDUITS, BENDS, AND FITTINGS, SEE PG&E BULLETIN TD-062288-B006.



NOTE FOR UNDERGROUND ELECTRIC INSTALLATION: USE OF PVC DB-120 IS NO LONGER APPROVED B PG&E FOR <u>ANY</u> CONDUIT SIZES, BENDS, AND FITTINGS. RIGID PVC SCHEDULE 40 MUST BE USED IN PLACE OF PVC DB-120 CONDUIT. FOR ALL

MATCH LINE - SEE SHEET JT-B.8

SHEET INDEX MAP N. T. S.

JOINT TRENCH TITLE SHEET **OVERALL** JT-B.3 THRU B.20 JOINT TRENCH INTENT

UTILITIES -PRELIMINARY-NOT FOR CONSTRUCTION THIS IS NOT A BID DOCUMENT THIS DRAWING HAS NOT YET BEEN REVIEWED BY UTILITY COMPANIES AND IS SUBJECT TO CHANGE. MATCH LINE - SEE SHEET JT-B.7 RALPON EXISTING CSJO COMM BOX TO BE RELOCATED SAP CENTER MATCH LINE - SEE SHEET JT-B.9

NOTE TO CONTRACTOR: FOR CONTRACTOR'S WORK RESPONSIBILITY, REFER TO JOINT TRENCH TITLE SHEET (JT-B.1)

LEGEND: **DESCRIPTION** — OH —— OVERHEAD LINES JOINT POLE

POLE-MOUNTED TRANSFORMER TRAFFIC SIGNAL LIGHT

FO EXISTING FIBER OPTIC LINE TO BE REMOVED/RELOCATED

EXISTING JOINT POLE TO BE REMOVED

EXISTING POLE-MOUNTED TRANSFORMER TO BE REMOVED

PROJECT NUMBER: 20-1072 1'' = 40'

PROJECT MANAGER: SCOTT HARDESTER HENRY NGUYEN

CRAIG BURTON

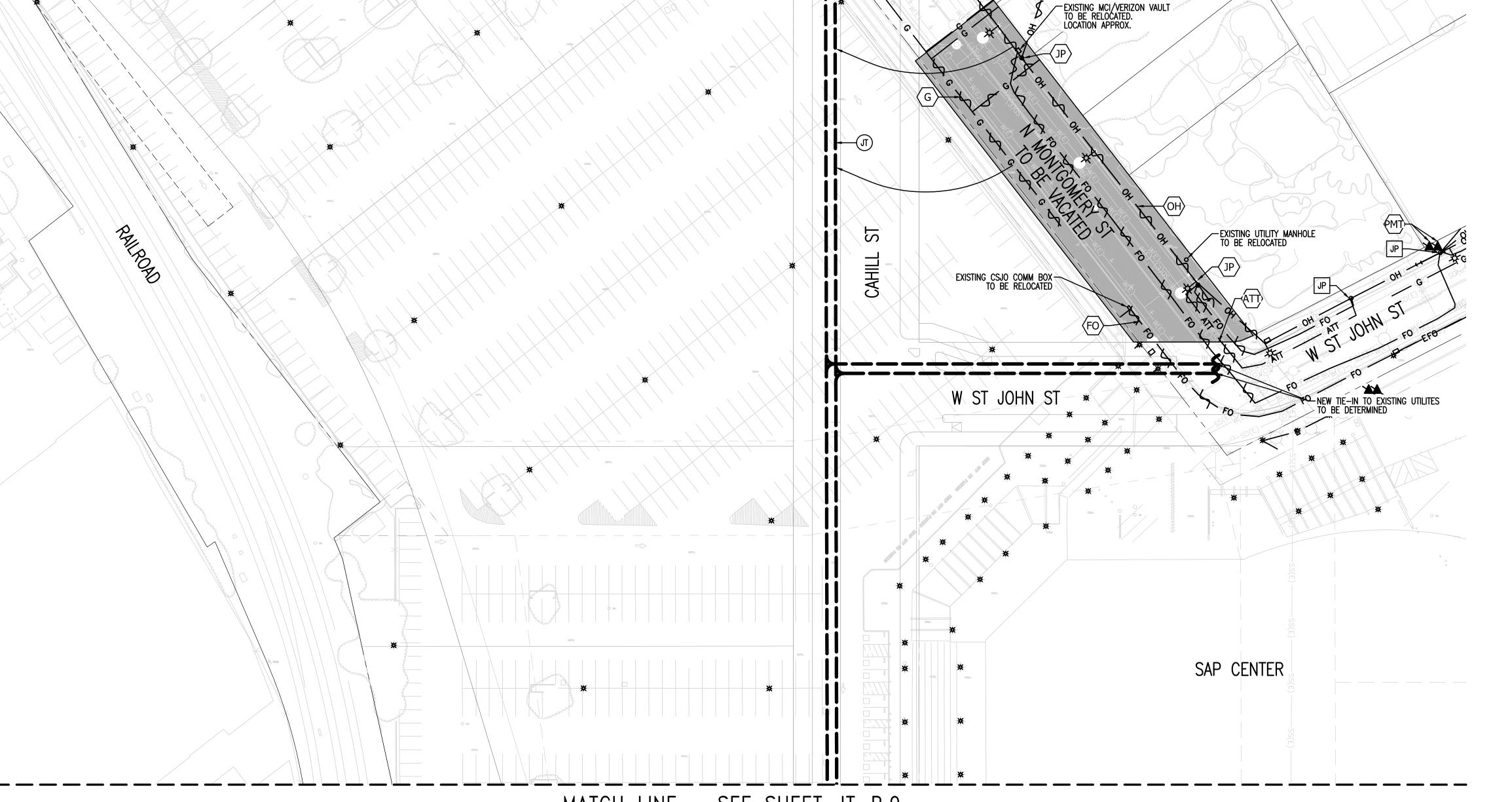
03-19-2021 RAWING NUMBER: JT-B.8
8 OF: 20

NOTE TO COMCAST:
PLEASE CONFIRM WHO WILL PROVIDE CONDUIT AND VAULTS. DEVELOPER TO PROVIDE TRENCH.

REFER TO PG&E UTILITY BULLETIN <u>TD-7001B-005</u> DOCUMENT FOR SMART METER ANTENNA CONSTRUCTION REQUIREMENTS.

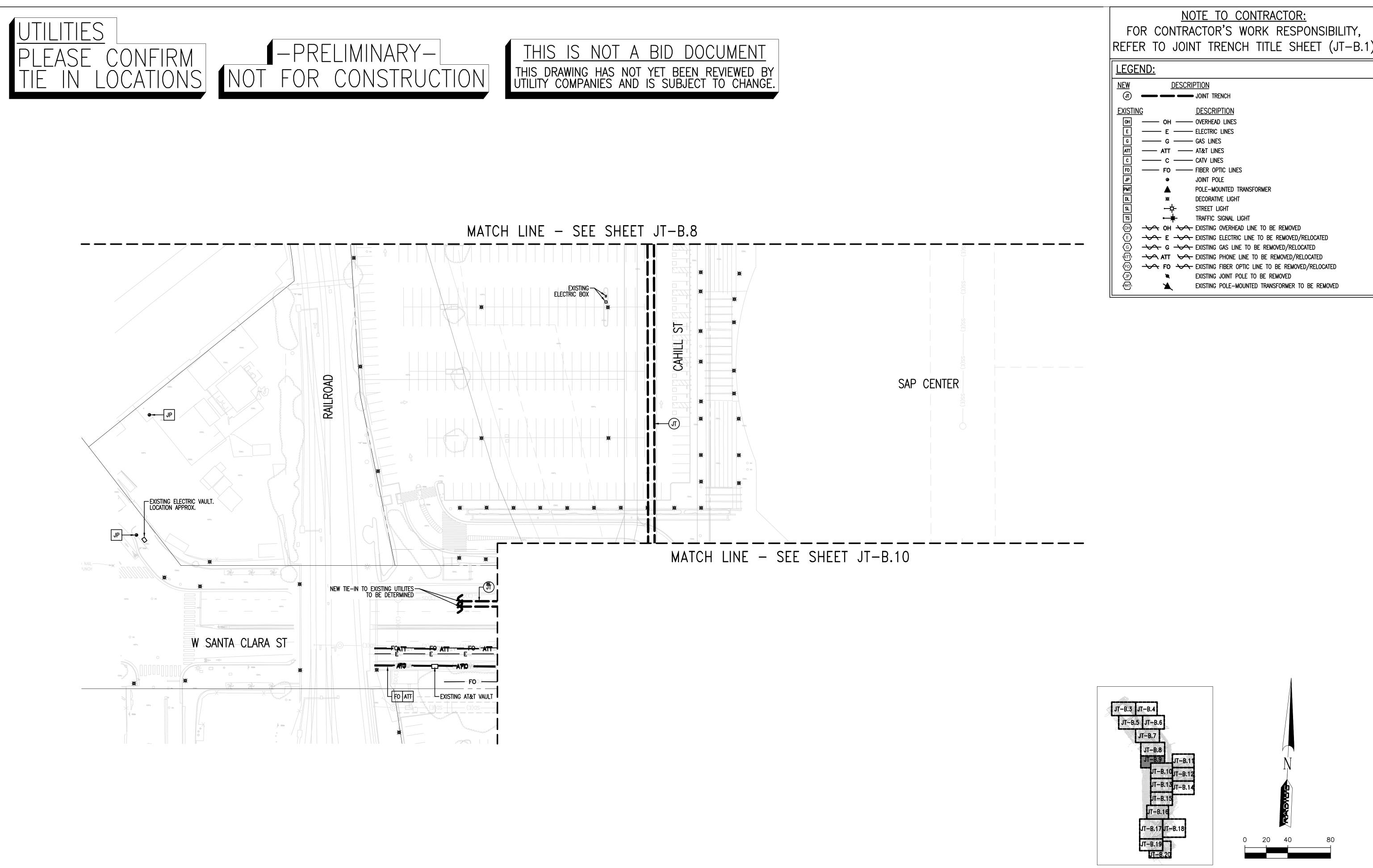
SUBSTRUCTURE LOCATIONS MUST BE STAKED BY A LICENSED SURVEYOR PRIOR TO CONSTRUCTION. SEE CONSTRUCTION NOTES ON JOINT TRENCH TITLE SHEET (JT-B.1) REGARDING EXISTING CONDITIONS.

NOTE FOR UNDERGROUND ELECTRIC INSTALLATION:
USE OF PVC DB-120 IS NO LONGER APPROVED BY
PG&E FOR ANY CONDUIT SIZES, BENDS, AND
FITTINGS. RIGID PVC SCHEDULE 40 MUST BE USED
IN PLACE OF PVC DB-120 CONDUIT. FOR ALL
APPROVED CONDUITS, BENDS, AND FITTINGS, SEE
PG&E BULLETIN TD-062288-B006.



SHEET INDEX MAP N. T. S.

JOINT TRENCH TITLE SHEET OVERALL JT-B.3 THRU B.20 JOINT TRENCH INTENT



NOTE TO COMCAST: PLEASE CONFIRM WHO WILL PROVIDE CONDUIT AND VAULTS. DEVELOPER TO PROVIDE TRENCH.

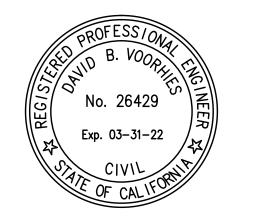
REFER TO PG&E UTILITY BULLETIN <u>TD-7001B-005</u> DOCUMENT FOR SMART METER ANTENNA CONSTRUCTION REQUIREMENTS.

SUBSTRUCTURE LOCATIONS MUST BE STAKED BY A LICENSED SURVEYOR PRIOR TO CONSTRUCTION. SEE CONSTRUCTION NOTES ON JOINT TRENCH TITLE SHEET (JT-B.1) REGARDING EXISTING CONDITIONS.

NOTE FOR UNDERGROUND ELECTRIC INSTALLATION: USE OF PVC DB-120 IS NO LONGER APPROVED BY PG&E FOR <u>ANY</u> CONDUIT SIZES, BENDS, AND FITTINGS. RIGID PVC SCHEDULE 40 MUST BE USED IN PLACE OF PVC DB-120 CONDUIT. FOR ALL APPROVED CONDUITS, BENDS, AND FITTINGS, SEE PG&E BULLETIN TD-062288-B006.

SHEET INDEX MAP N. T. S.

JOINT TRENCH TITLE SHEET OVERALL JT-B.3 THRU B.20 JOINT TRENCH INTENT



PROJECT NUMBER: 20-1072

1'' = 40'PROJECT MANAGER: SCOTT HARDESTER

HENRY NGUYEN CRAIG BURTON

LAST UPDATED: 03-19-2021 RAWING NUMBER:

JT-B.9

THIS IS NOT A BID DOCUMENT THIS DRAWING HAS NOT YET BEEN REVIEWED BY UTILITY COMPANIES AND IS SUBJECT TO CHANGE.

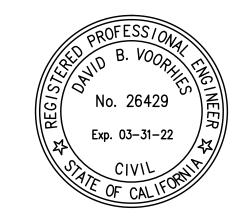
MATCH LINE - SEE SHEET JT-B.9 W SANTA CLARA ST EXISTING TRAFFIC— SIGNAL BOX (E) * LOCATION APPROXIMATE -LOCATION APPROXIMATE (DRAWN PER AS-BUILTS). CIVIL TO CONFIRM $\dot{\mathbf{a}}$ 别 S E CRANDALL ST EE I 15 (DRAWN PER AS-BUILTS). CIVIL TO CONFIRM EXISTING TRANSFORMER T919-LINE MATCH EXISTING ELECTRIC BOX-

MATCH LINE - SEE SHEET JT-B.13

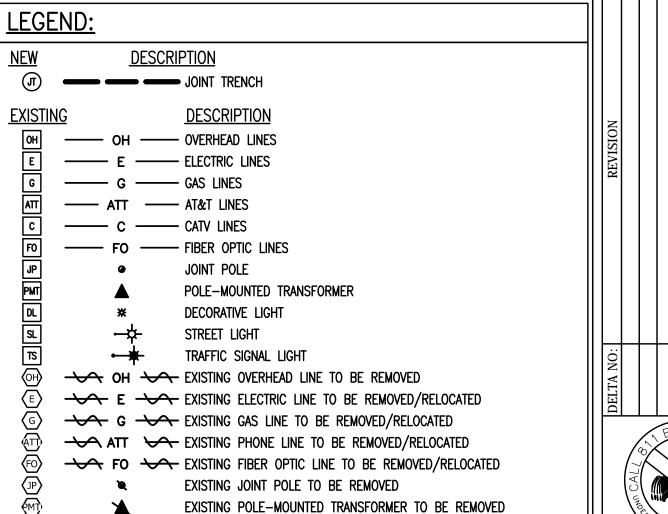
JT-B.3 JT-B.4

SHEET INDEX MAP N. T. S.

JOINT TRENCH TITLE SHEET **OVERALL** JT-B.3 THRU B.20 JOINT TRENCH INTENT



NOTE TO CONTRACTOR: FOR CONTRACTOR'S WORK RESPONSIBILITY, REFER TO JOINT TRENCH TITLE SHEET (JT-B.1)



PROJECT NUMBER: 20-1072 1' = 40'

PROJECT MANAGER: SCOTT HARDESTER

HENRY NGUYEN CRAIG BURTON

LAST UPDATED: 03-19-2021 RAWING NUMBER: JT-B.10 SHEET: 10 OF: 20

NOTE TO COMCAST: PLEASE CONFIRM WHO WILL PROVIDE CONDUIT AND VAULTS. DEVELOPER TO PROVIDE TRENCH.

REFER TO PG&E UTILITY BULLETIN <u>TD-7001B-005</u> DOCUMENT FOR SMART METER ANTENNA CONSTRUCTION REQUIREMENTS.

SUBSTRUCTURE LOCATIONS MUST BE STAKED BY A LICENSED SURVEYOR PRIOR TO CONSTRUCTION. SEE CONSTRUCTION NOTES ON JOINT TRENCH TITLE SHEET (JT-B.1) REGARDING EXISTING CONDITIONS.

NOTE FOR UNDERGROUND ELECTRIC INSTALLATION: USE OF PVC DB-120 IS NO LONGER APPROVED B PG&E FOR <u>ANY</u> CONDUIT SIZES, BENDS, AND FITTINGS. RIGID PVC SCHEDULE 40 MUST BE USED IN PLACE OF PVC DB-120 CONDUIT. FOR ALL APPROVED CONDUITS, BENDS, AND FITTINGS, SEE PG&E BULLETIN TD-062288-B006.

THIS IS NOT A BID DOCUMENT THIS DRAWING HAS NOT YET BEEN REVIEWED BY UTILITY COMPANIES AND IS SUBJECT TO CHANGE.

EXISTING CSJ LIGHTING BOX-EXISTING ELECTRIC BOX — EXISTING UTILITY BOX EXISTING ELECTRIC BOX EXISTING PHONE BOX-BRIDGE AREA (LIMITS APPROX.) LOCATION APPROXIMATE -(DRAWN PER AS-BUILTS). CIVIL TO CONFIRM EXISTING CSJ— LIGHTING BOX EXISTING UTILITY BOX-LOCATION APPROXIMATE — (DRAWN PER AS-BUILTS). CIVIL TO CONFIRM -existing CSJ interconnect box -existing street light box -LOCATION APPROXIMATE - LOCATION APPROXIMATE (DRAWN PER AS-BUILTS). CIVIL TO CONFIRM (DRAWN PER AS-BUILTS). CIVIL TO CONFIRM -EXISTING ELECTRIC BOX -EXISTING STREET LIGHT BOX LOCATION APPROXIMATE (DRAWN PER AS-BUILTS). CIVIL TO CONFIRM EXISTING STREET LIGHT BOX
EXISTING TRAFFIC SIGNAL BOX
EXISTING ELECTRIC MANHOLE EXISTING TRANSFORMER ----EXISTING STREET LIGHT BOX-MATCH LINE - SEE SHEET JT-B.12

NOTE TO CONTRACTOR: FOR CONTRACTOR'S WORK RESPONSIBILITY,

REFER TO JOINT TRENCH TITLE SHEET (JT-B.1)

LEGEND: **DESCRIPTION** — OH —— OVERHEAD LINES JOINT POLE POLE-MOUNTED TRANSFORMER STREET LIGHT TRAFFIC SIGNAL LIGHT FO EXISTING FIBER OPTIC LINE TO BE REMOVED/RELOCATED EXISTING JOINT POLE TO BE REMOVED EXISTING POLE-MOUNTED TRANSFORMER TO BE REMOVED

ROJECT NUMBER: 20-1072

1" = 40'PROJECT MANAGER: SCOTT HARDESTER

HENRY NGUYEN CRAIG BURTON

LAST UPDATED: 03-19-2021 DRAWING NUMBER:

No. 26429

NOTE TO COMCAST: PLEASE CONFIRM WHO WILL PROVIDE CONDUIT AND VAULTS. DEVELOPER TO PROVIDE TRENCH.

REFER TO PG&E UTILITY BULLETIN <u>TD-7001B-005</u> DOCUMENT FOR SMART METER ANTENNA CONSTRUCTION REQUIREMENTS.

SUBSTRUCTURE LOCATIONS MUST BE STAKED BY A LICENSED SURVEYOR PRIOR TO CONSTRUCTION. SEE CONSTRUCTION NOTES ON JOINT TRENCH TITLE SHEET (JT-B.1) REGARDING EXISTING CONDITIONS

NOTE FOR UNDERGROUND ELECTRIC INSTALLATION: USE OF PVC DB-120 IS NO LONGER APPROVED BY PG&E FOR <u>ANY</u> CONDUIT SIZES, BENDS, AND FITTINGS. RIGID PVC SCHEDULE 40 MUST BE USED IN PLACE OF PVC DB-120 CONDUIT. FOR ALL APPROVED CONDUITS, BENDS, AND FITTINGS, SEE PG&E BULLETIN TD-062288-B006.

10 $\mathbf{\omega}$

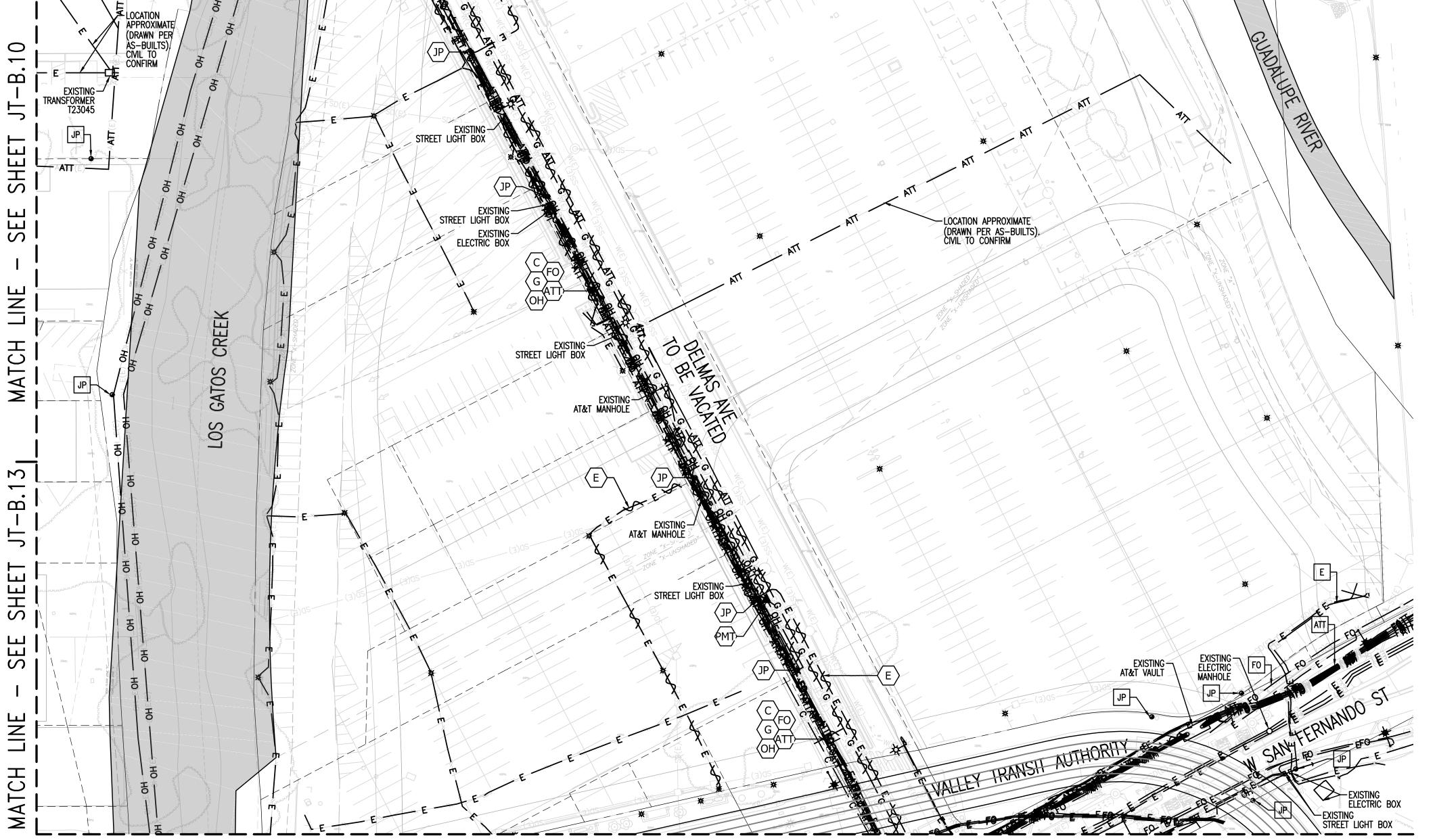
SHEET INDEX MAP N. T. S.

JOINT TRENCH TITLE SHEET OVERALL JT-B.3 THRU B.20 JOINT TRENCH INTENT

JT-B.11
SHEET: 11 OF: 20

THIS IS NOT A BID DOCUMENT
THIS DRAWING HAS NOT YET BEEN REVIEWED BY
UTILITY COMPANIES AND IS SUBJECT TO CHANGE.

MATCH LINE - SEE SHEET JT-B.11



MATCH LINE - SEE SHEET JT-B.14

JT-B.3 JT-B.4

JT-B.5 JT-B.6

JT-B.9 JT-B.11

JT-B.10 JT-B.12

JT-B.15

JT-B.15

JT-B.19

JT-B.20

SHEET INDEX MAP

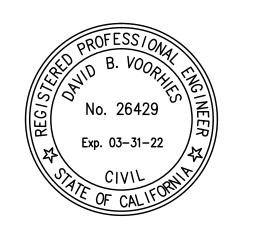
N. T. S.

SHEET INDEX

JT-B.1 JOINT TRENCH TITLE SHEET

JT-B.2 OVERALL

JT-B.3 THRU B.20 JOINT TRENCH INTENT



NOTE TO CONTRACTOR:

FOR CONTRACTOR'S WORK RESPONSIBILITY,

REFER TO JOINT TRENCH TITLE SHEET (JT-B.1)

NEW DESCRIPTION

③ JOINT TRENCH

EXISTING DESCRIPTION

③ OH OVERHEAD LINES

Ē E ELECTRIC LINES

⑤ G G GAS LINES

ATT ATT AT&T LINES

⑥ OF FO FIBER OPTIC LINES

⑤ JOINT POLE

PMT A POLE—MOUNTED TRANSFORMER

DL ** DECORATIVE LIGHT

SL -** STREET LIGHT

TRAFFIC SIGNAL LIGHT

SL -** STREET LIGHT

TRAFFIC SIGNAL LIGHT

⑤ OH EXISTING OVERHEAD LINE TO BE REMOVED

⑥ OF EXISTING GAS LINE TO BE REMOVED/RELOCATED

⑥ OF C EXISTING GAS LINE TO BE REMOVED/RELOCATED

⑥ OF C EXISTING FIBER OPTIC LINE TO BE REMOVED/RELOCATED

⑥ OF C EXISTING FIBER OPTIC LINE TO BE REMOVED/RELOCATED

⑥ OF C EXISTING FIBER OPTIC LINE TO BE REMOVED/RELOCATED

⑥ OF C EXISTING FIBER OPTIC LINE TO BE REMOVED/RELOCATED

⑥ OF C EXISTING FIBER OPTIC LINE TO BE REMOVED/RELOCATED

⑥ OF C EXISTING FIBER OPTIC LINE TO BE REMOVED/RELOCATED

⑥ OF C EXISTING FIBER OPTIC LINE TO BE REMOVED/RELOCATED

⑥ EXISTING JOINT POLE TO BE REMOVED/RELOCATED

DELTA

BE FOR LOW ON THE PROPERTY OF LOW OF THE PROPERTY OF TH

JOINT TRENCH INTENT DOWNTOWN WEST

380 JOSE

DESIGNA DESIGNA IGN CONSULTANTS & ENGINEERS SUITE 420, WALNUT CREEK, CA 94596

UTILITY DESIGN CONSULTANT 1460 MARIA LANE, SUITE 420, WALK

ROJECT NUMBER: 20-1072CALE: 1''=40'

1" = 40'

PROJECT MANAGER:

SCOTT HARDESTER

DRAWN BY:

HENDY NICHYEN

HENRY NGUYEN
ECKED BY:
CRAIG BURTON

03-19-2021

DRAWING NUMBER:

JT-B.12

SHEET: 12 OF: 20

NOTE TO COMCAST:
PLEASE CONFIRM WHO WILL PROVIDE CONDUIT AND VAULTS. DEVELOPER TO PROVIDE TRENCH.

REFER TO PG&E UTILITY BULLETIN <u>TD-7001B-005</u>
DOCUMENT FOR SMART METER ANTENNA
CONSTRUCTION REQUIREMENTS.

SUBSTRUCTURE LOCATIONS MUST BE STAKED BY A LICENSED SURVEYOR PRIOR TO CONSTRUCTION.
SEE CONSTRUCTION NOTES ON JOINT TRENCH TITLE SHEET (JT-B.1) REGARDING EXISTING CONDITIONS.

NOTE FOR UNDERGROUND ELECTRIC INSTALLATION:
USE OF PVC DB-120 IS NO LONGER APPROVED BY
PG&E FOR ANY CONDUIT SIZES, BENDS, AND
FITTINGS. RIGID PVC SCHEDULE 40 MUST BE USED
IN PLACE OF PVC DB-120 CONDUIT. FOR ALL
APPROVED CONDUITS, BENDS, AND FITTINGS, SEE
PG&E BULLETIN TD-062288-B006.

JT-B.3 JT-B.4 JT-B.5 JT-B.

SHEET INDEX MAP N. T. S.

JOINT TRENCH TITLE SHEET **OVERALL** JT-B.3 THRU B.20 JOINT TRENCH INTENT



NOTE TO COMCAST: PLEASE CONFIRM WHO WILL PROVIDE CONDUIT AND VAULTS. DEVELOPER TO PROVIDE TRENCH.

REFER TO PG&E UTILITY BULLETIN <u>TD-7001B-005</u> DOCUMENT FOR SMART METER ANTENNA CONSTRUCTION REQUIREMENTS.

SUBSTRUCTURE LOCATIONS MUST BE STAKED BY A LICENSED SURVEYOR PRIOR TO CONSTRUCTION. SEE CONSTRUCTION NOTES ON JOINT TRENCH TITLE SHEET (JT-B.1) REGARDING EXISTING CONDITIONS

NOTE FOR UNDERGROUND ELECTRIC INSTALLATION: USE OF PVC DB-120 IS NO LONGER APPROVED B' PG&E FOR <u>ANY</u> CONDUIT SIZES, BENDS, AND FITTINGS. RIGID PVC SCHEDULE 40 MUST BE USED IN PLACE OF PVC DB-120 CONDUIT. FOR ALL APPROVED CONDUITS, BENDS, AND FITTINGS, SEE PG&E BULLETIN TD-062288-B006.

NOTE TO CONTRACTOR: FOR CONTRACTOR'S WORK RESPONSIBILITY, REFER TO JOINT TRENCH TITLE SHEET (JT-B.1)

<u>NEW</u>

LEGEND: DESCRIPTION JOINT TRENCH **DESCRIPTION** — OH —— OVERHEAD LINES ----- FIBER OPTIC LINES JOINT POLE POLE-MOUNTED TRANSFORMER DECORATIVE LIGHT STREET LIGHT TRAFFIC SIGNAL LIGHT EXISTING FIBER OPTIC LINE TO BE REMOVED/RELOCATED EXISTING JOINT POLE TO BE REMOVED EXISTING POLE-MOUNTED TRANSFORMER TO BE REMOVED

PROJECT NUMBER: 20-1072 1'' = 40'

PROJECT MANAGER: SCOTT HARDESTER

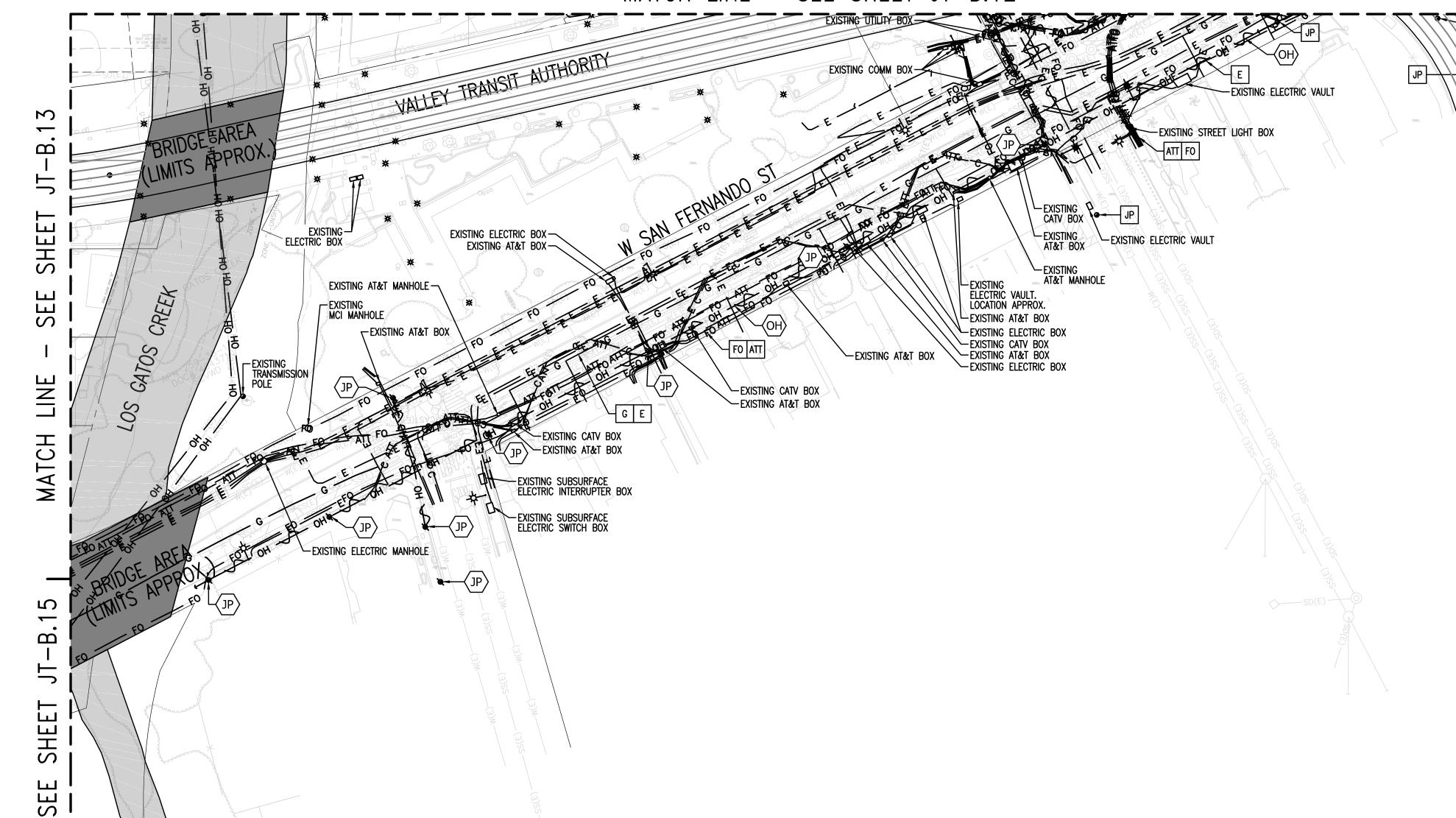
HENRY NGUYEN CRAIG BURTON LAST UPDATED:

03-19-2021

DRAWING NUMBER: JT-B.13 SHEET: 13 OF: 20

THIS IS NOT A BID DOCUMENT THIS DRAWING HAS NOT YET BEEN REVIEWED BY UTILITY COMPANIES AND IS SUBJECT TO CHANGE.

MATCH LINE - SEE SHEET JT-B.12



NOTE TO CONTRACTOR: FOR CONTRACTOR'S WORK RESPONSIBILITY,

REFER TO JOINT TRENCH TITLE SHEET (JT-B.1)

LEGEND: **DESCRIPTION** JOINT TRENCH — OH ——— OVERHEAD LINES JOINT POLE POLE-MOUNTED TRANSFORMER STREET LIGHT TRAFFIC SIGNAL LIGHT OH EXISTING OVERHEAD LINE TO BE REMOVED E EXISTING ELECTRIC LINE TO BE REMOVED/RELOCATED EXISTING GAS LINE TO BE REMOVED/RELOCATED EXISTING PHONE LINE TO BE REMOVED/RELOCATED FO EXISTING FIBER OPTIC LINE TO BE REMOVED/RELOCATED EXISTING JOINT POLE TO BE REMOVED

EXISTING POLE-MOUNTED TRANSFORMER TO BE REMOVED

PROJECT NUMBER: 20-1072 1" = 40'

PROJECT MANAGER: SCOTT HARDESTER

HENRY NGUYEN

CRAIG BURTON 03-19-2021

DRAWING NUMBER: JT-B.14
SHEET: 14 OF: 20

SHEET INDEX MAP N. T. S.

JOINT TRENCH TITLE SHEET OVERALL JT-B.3 THRU B.20 JOINT TRENCH INTENT

NOTE TO COMCAST: PLEASE CONFIRM WHO WILL PROVIDE CONDUIT AND VAULTS. DEVELOPER TO PROVIDE TRENCH.

REFER TO PG&E UTILITY BULLETIN <u>TD-7001B-005</u> DOCUMENT FOR SMART METER ANTENNA CONSTRUCTION REQUIREMENTS.

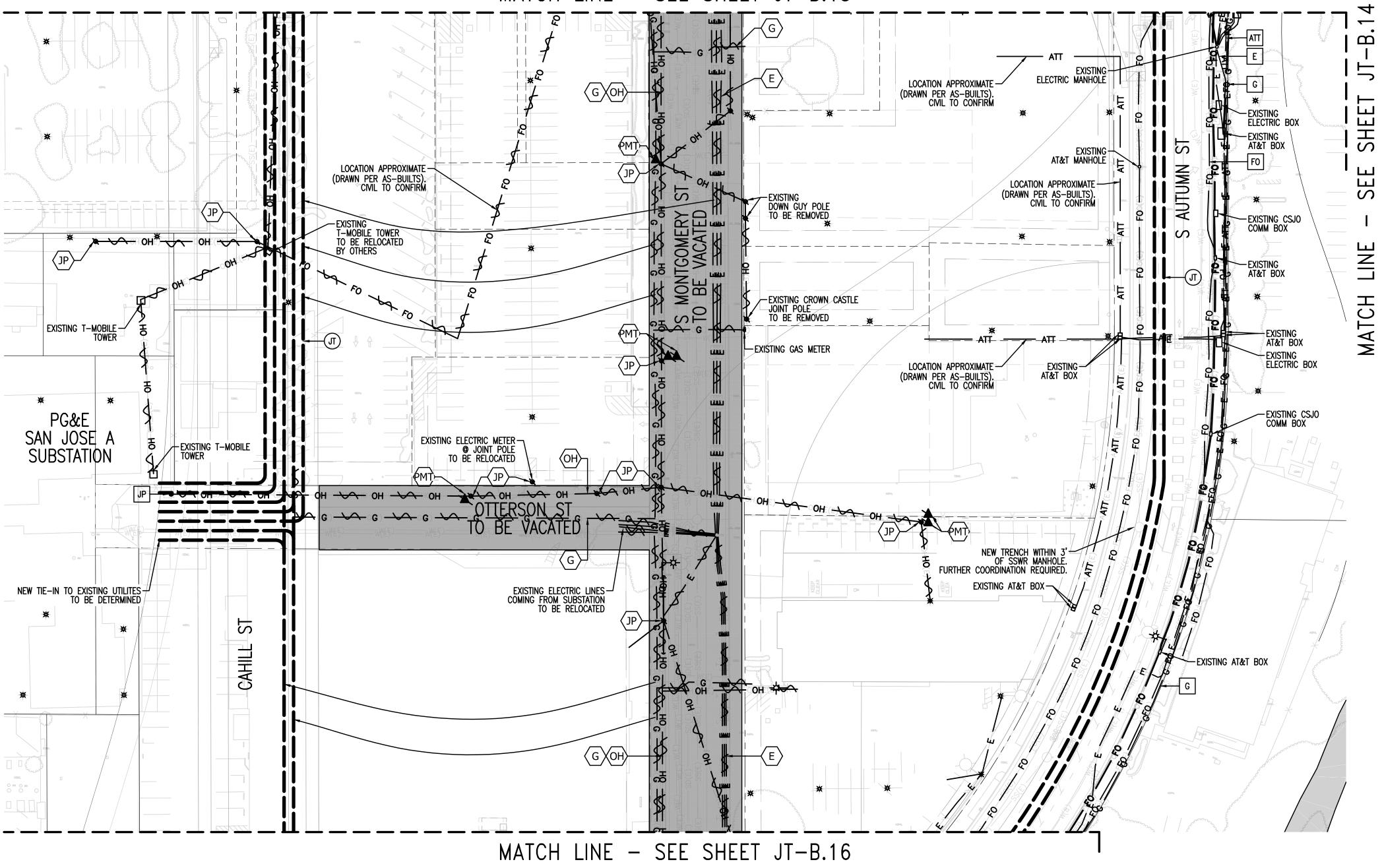
MATCH

SUBSTRUCTURE LOCATIONS MUST BE STAKED BY A LICENSED SURVEYOR PRIOR TO CONSTRUCTION. SEE CONSTRUCTION NOTES ON JOINT TRENCH TITLE SHEET (JT-B.1) REGARDING EXISTING CONDITIONS.

NOTE FOR UNDERGROUND ELECTRIC INSTALLATION: USE OF PVC DB-120 IS NO LONGER APPROVED BY PG&E FOR <u>ANY</u> CONDUIT SIZES, BENDS, AND FITTINGS. RIGID PVC SCHEDULE 40 MUST BE USED IN PLACE OF PVC DB-120 CONDUIT. FOR ALL APPROVED CONDUITS, BENDS, AND FITTINGS, SEE PG&E BULLETIN TD-062288-B006.

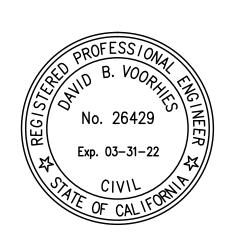
THIS IS NOT A BID DOCUMENT THIS DRAWING HAS NOT YET BEEN REVIEWED BY UTILITY COMPANIES AND IS SUBJECT TO CHANGE.

MATCH LINE - SEE SHEET JT-B.13



SHEET INDEX MAP N. T. S.

JOINT TRENCH TITLE SHEET OVERALL JT-B.3 THRU B.20 JOINT TRENCH INTENT



NOTE TO COMCAST: PLEASE CONFIRM WHO WILL PROVIDE CONDUIT AND VAULTS. DEVELOPER TO PROVIDE TRENCH.

REFER TO PG&E UTILITY BULLETIN TD-7001B-005 DOCUMENT FOR SMART METER ANTENNA CONSTRUCTION REQUIREMENTS.

SUBSTRUCTURE LOCATIONS MUST BE STAKED BY A LICENSED SURVEYOR PRIOR TO CONSTRUCTION. SEE CONSTRUCTION NOTES ON JOINT TRENCH TITLE SHEET (JT-B.1) REGARDING EXISTING CONDITIONS.

USE OF PVC DB-120 IS NO LONGER APPROVED BY PG&E FOR <u>ANY</u> CONDUIT SIZES, BENDS, AND FITTINGS. RIGID PVC SCHEDULE 40 MUST BE USED IN PLACE OF PVC DB-120 CONDUIT. FOR ALL APPROVED CONDUITS, BENDS, AND FITTINGS, SEE PG&E BULLETIN TD-062288-B006.

NOTE FOR UNDERGROUND ELECTRIC INSTALLATION:

NOTE TO CONTRACTOR:

FOR CONTRACTOR'S WORK RESPONSIBILITY, REFER TO JOINT TRENCH TITLE SHEET (JT-B.1)

EXISTING JOINT POLE TO BE REMOVED

EXISTING POLE-MOUNTED TRANSFORMER TO BE REMOVED

LEGEND:

<u>NEW</u>

DESCRIPTION JOINT TRENCH — OH ——— OVERHEAD LINES JOINT POLE POLE-MOUNTED TRANSFORMER DECORATIVE LIGHT STREET LIGHT TRAFFIC SIGNAL LIGHT EXISTING FIBER OPTIC LINE TO BE REMOVED/RELOCATED

ROJECT NUMBER: 20-1072

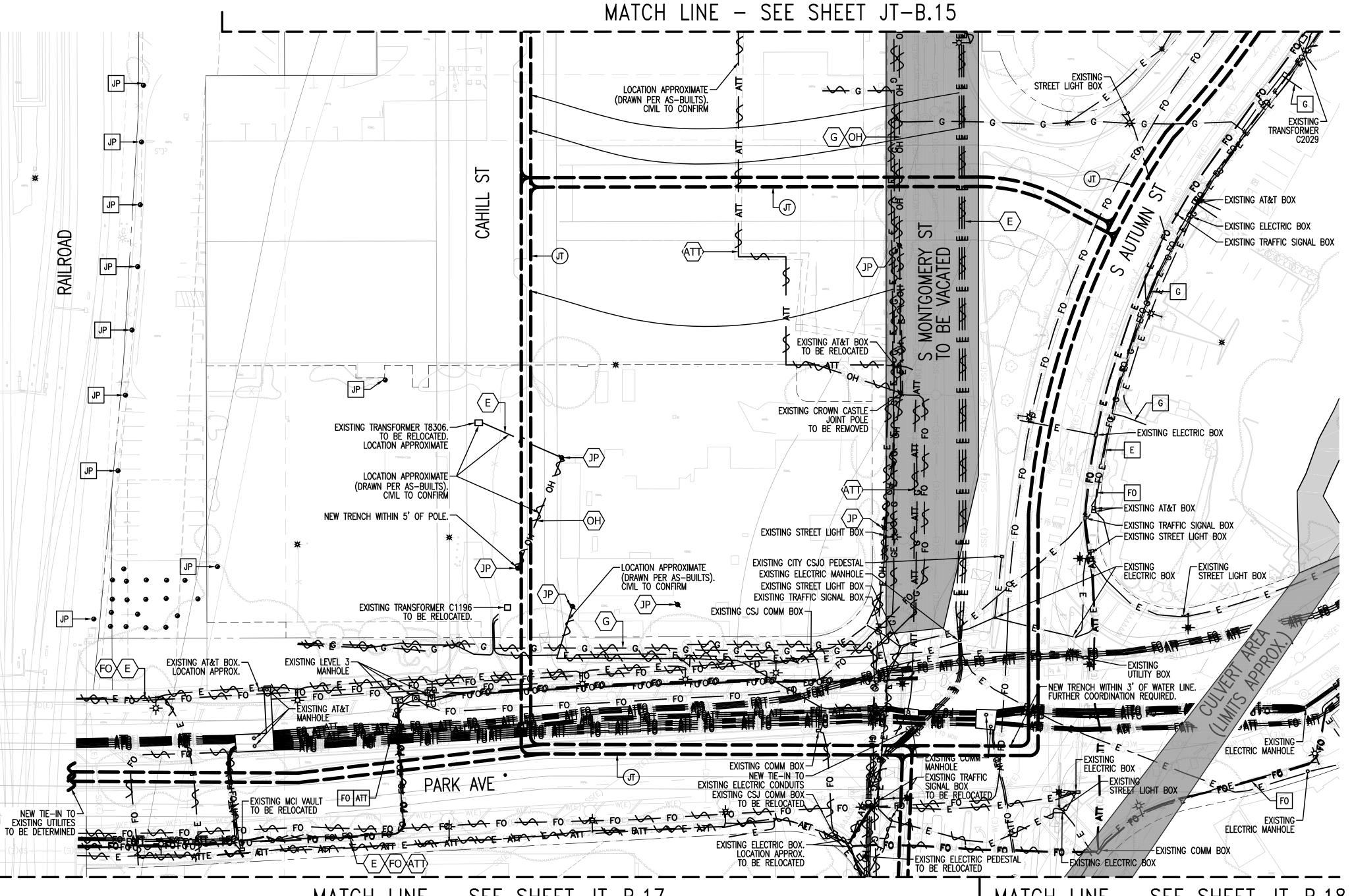
1" = 40'PROJECT MANAGER:

SCOTT HARDESTER HENRY NGUYEN

CRAIG BURTON LAST UPDATED: 03-19-2021

DRAWING NUMBER: JT-B.15 SHEET: 15 OF: 20

THIS IS NOT A BID DOCUMENT THIS DRAWING HAS NOT YET BEEN REVIEWED BY UTILITY COMPANIES AND IS SUBJECT TO CHANGE.



NOTE TO CONTRACTOR: FOR CONTRACTOR'S WORK RESPONSIBILITY, REFER TO JOINT TRENCH TITLE SHEET (JT-B.1) LEGEND:

DESCRIPTION JOINT TRENCH — OH —— OVERHEAD LINES JOINT POLE POLE-MOUNTED TRANSFORMER STREET LIGHT TRAFFIC SIGNAL LIGHT EXISTING FIBER OPTIC LINE TO BE REMOVED/RELOCATED EXISTING JOINT POLE TO BE REMOVED EXISTING POLE-MOUNTED TRANSFORMER TO BE REMOVED

PROJECT NUMBER: 20-1072 1'' = 40'

PROJECT MANAGER: SCOTT HARDESTER

HENRY NGUYEN CRAIG BURTON

LAST UPDATED: 03-19-2021 DRAWING NUMBER:

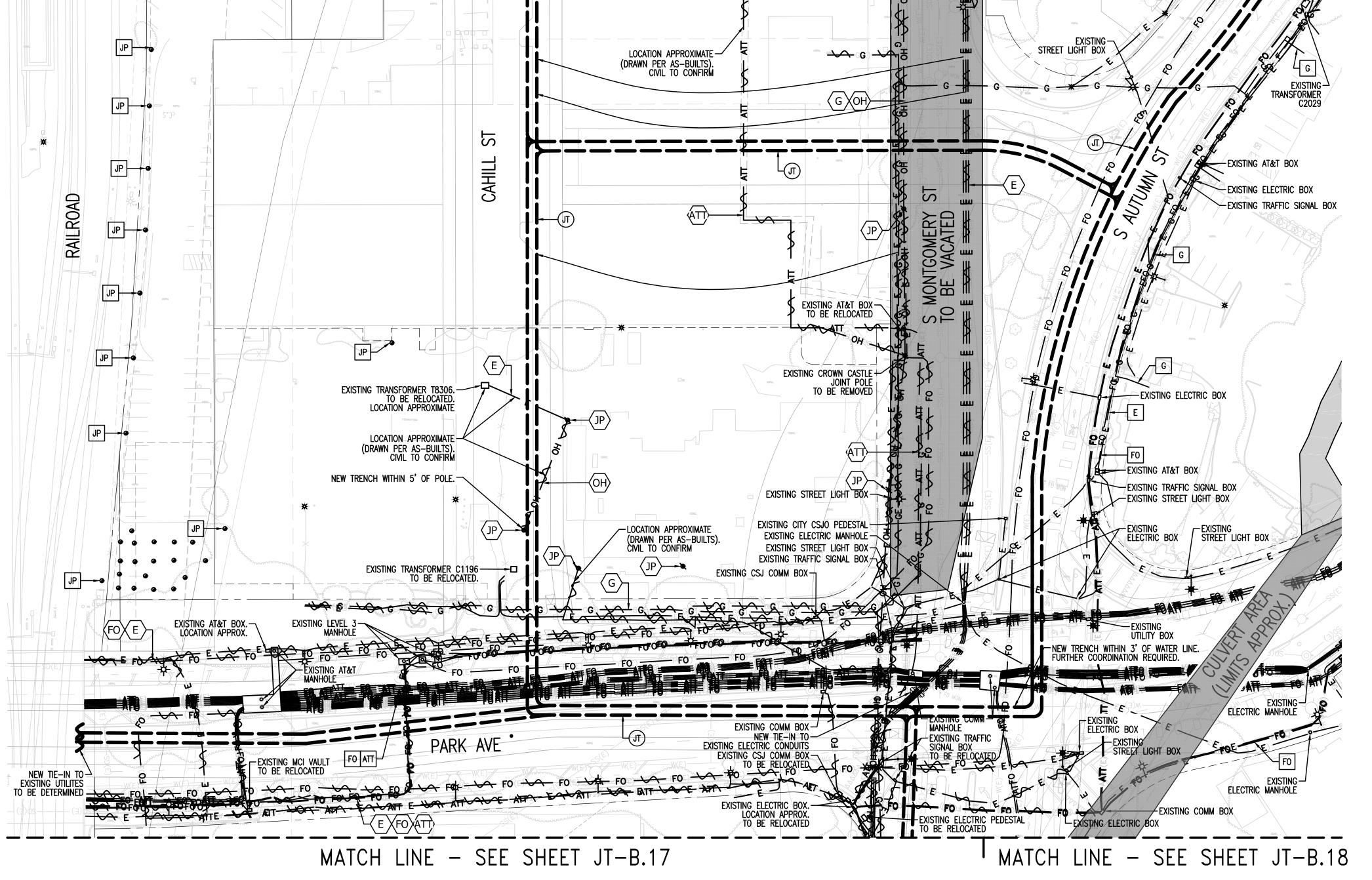
No. 26429

JT-B.16
SHEET: 16 OF: 20

REFER TO PG&E UTILITY BULLETIN <u>TD-7001B-005</u> DOCUMENT FOR SMART METER ANTENNA

SUBSTRUCTURE LOCATIONS MUST BE STAKED BY A LICENSED SURVEYOR PRIOR TO CONSTRUCTION. SEE CONSTRUCTION NOTES ON JOINT TRENCH TITLE SHEET (JT-B.1) REGARDING EXISTING CONDITIONS

USE OF PVC DB-120 IS NO LONGER APPROVED | PG&E FOR <u>ANY</u> CONDUIT SIZES, BENDS, AND FITTINGS. RIGID PVC SCHEDULE 40 MUST BE USED IN PLACE OF PVC DB-120 CONDUIT. FOR ALL APPROVED CONDUITS, BENDS, AND FITTINGS, SEE



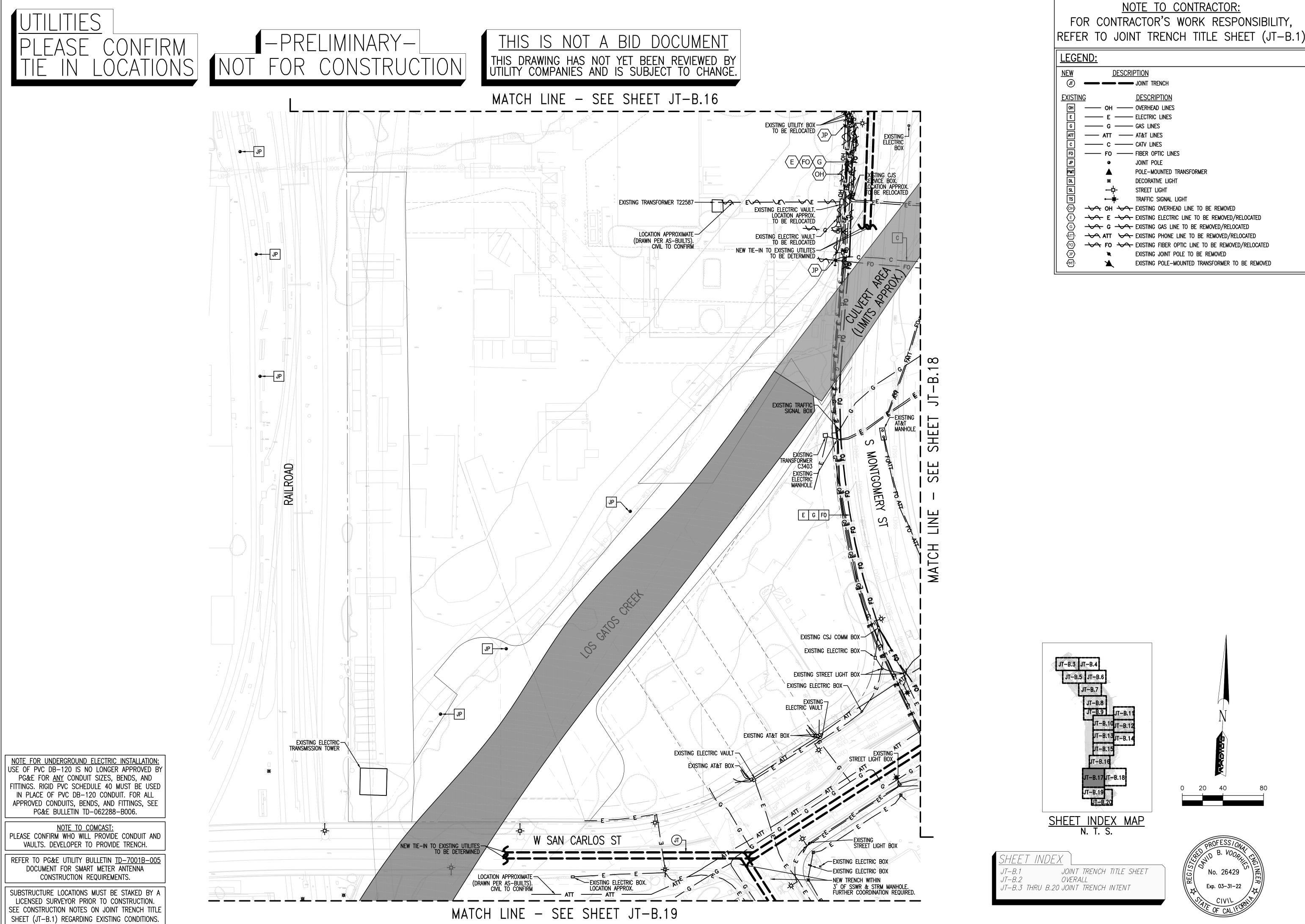
NOTE TO COMCAST: PLEASE CONFIRM WHO WILL PROVIDE CONDUIT AND VAULTS. DEVELOPER TO PROVIDE TRENCH.

NOTE FOR UNDERGROUND ELECTRIC INSTALLATION: CONSTRUCTION REQUIREMENTS.

SHEET INDEX MAP N. T. S.

JT-B.3 JT-B.4

JOINT TRENCH TITLE SHEET **OVERALL** JT-B.3 THRU B.20 JOINT TRENCH INTENT



PROJECT NUMBER: 20-1072

1'' = 40'

SCOTT HARDESTER

HENRY NGUYEN

CRAIG BURTON

03-19-2021

JT-B.17
SHEET: 17 OF: 20

DRAWING NUMBER:

THIS IS NOT A BID DOCUMENT THIS DRAWING HAS NOT YET BEEN REVIEWED BY UTILITY COMPANIES AND IS SUBJECT TO CHANGE.

MATCH LINE - SEE SHEET JT-B.16 LOCATION APPROXIMATE -(DRAWN PER AS-BUILTS). CIVIL TO CONFIRM -NEW TIE-IN TO EXISTING UTILITES TO BE DETERMINED -LOCATION APPROXIMATE (DRAWN PER AS-BUILTS). CIVIL TO CONFIRM NEW TRENCH WITHIN 3' OF GAS LINE. -LOCATION APPROXIMATE NEW TRENCH WITHIN 3' OF SSWR MANHOLE. FURTHER COORDINATION REQUIRED. EXISTING AT&T BOX — EXISTING ELECTRIC BOX -B.17 EXISTING UTILITY BOX-EXISTING ELECTRIC BOX EXISTING AT&T BOX EXISTING ELECTRIC BOX \succ SHEET EXISTING GAS VALVE -EXISTING ELECTRIC VAULT -EXISTING AT&T BOX -LOCATION APPROXIMATE -(DRAWN PER AS-BUILTS). SE EXISTING STREET LIGHT BOX LINE EXISTING ELECTRIC BOX — EXISTING AT&T BOX STREET LIGHT BOX MATCH -EXISTING ELECTRIC BOX -EXISTING GAS METER -EXISTING GAS VALVE EXISTING ELECTRIC TRANSFORMER T26108 -EXISTING ELECTRIC TRANSFORMER T26109 FO ATT E C - EXISTING ELECTRIC BOX. LOCATION APPROX.

REFER TO JOINT TRENCH TITLE SHEET (JT-B.1) **LEGEND:** <u>NEW</u> **DESCRIPTION** JOINT TRENCH — OH — OVERHEAD LINES FO — FIBER OPTIC LINES JOINT POLE POLE-MOUNTED TRANSFORMER DECORATIVE LIGHT STREET LIGHT TRAFFIC SIGNAL LIGHT OH EXISTING OVERHEAD LINE TO BE REMOVED E EXISTING ELECTRIC LINE TO BE REMOVED/RELOCATED EXISTING GAS LINE TO BE REMOVED/RELOCATED ATT SEXISTING PHONE LINE TO BE REMOVED/RELOCATED FO SISTING FIBER OPTIC LINE TO BE REMOVED/RELOCATED EXISTING JOINT POLE TO BE REMOVED EXISTING POLE-MOUNTED TRANSFORMER TO BE REMOVED

NOTE TO CONTRACTOR:

FOR CONTRACTOR'S WORK RESPONSIBILITY,

PROJECT NUMBER: 20-1072

1" = 40'SCOTT HARDESTER

HENRY NGUYEN

CRAIG BURTON 03-19-2021 DRAWING NUMBER:

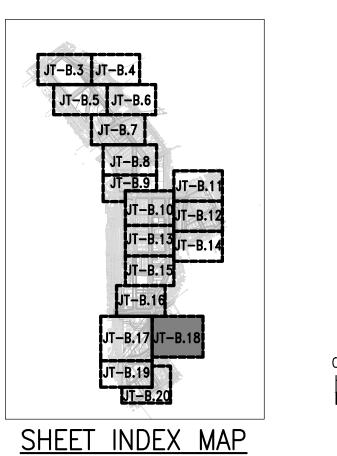
JT-B.18
SHEET: 18 OF: 20

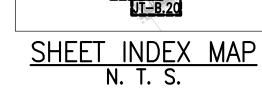
NOTE TO COMCAST: PLEASE CONFIRM WHO WILL PROVIDE CONDUIT AND VAULTS. DEVELOPER TO PROVIDE TRENCH.

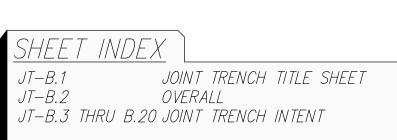
REFER TO PG&E UTILITY BULLETIN <u>TD-7001B-005</u> DOCUMENT FOR SMART METER ANTENNA CONSTRUCTION REQUIREMENTS.

SUBSTRUCTURE LOCATIONS MUST BE STAKED BY A LICENSED SURVEYOR PRIOR TO CONSTRUCTION. SEE CONSTRUCTION NOTES ON JOINT TRENCH TITLE SHEET (JT-B.1) REGARDING EXISTING CONDITIONS

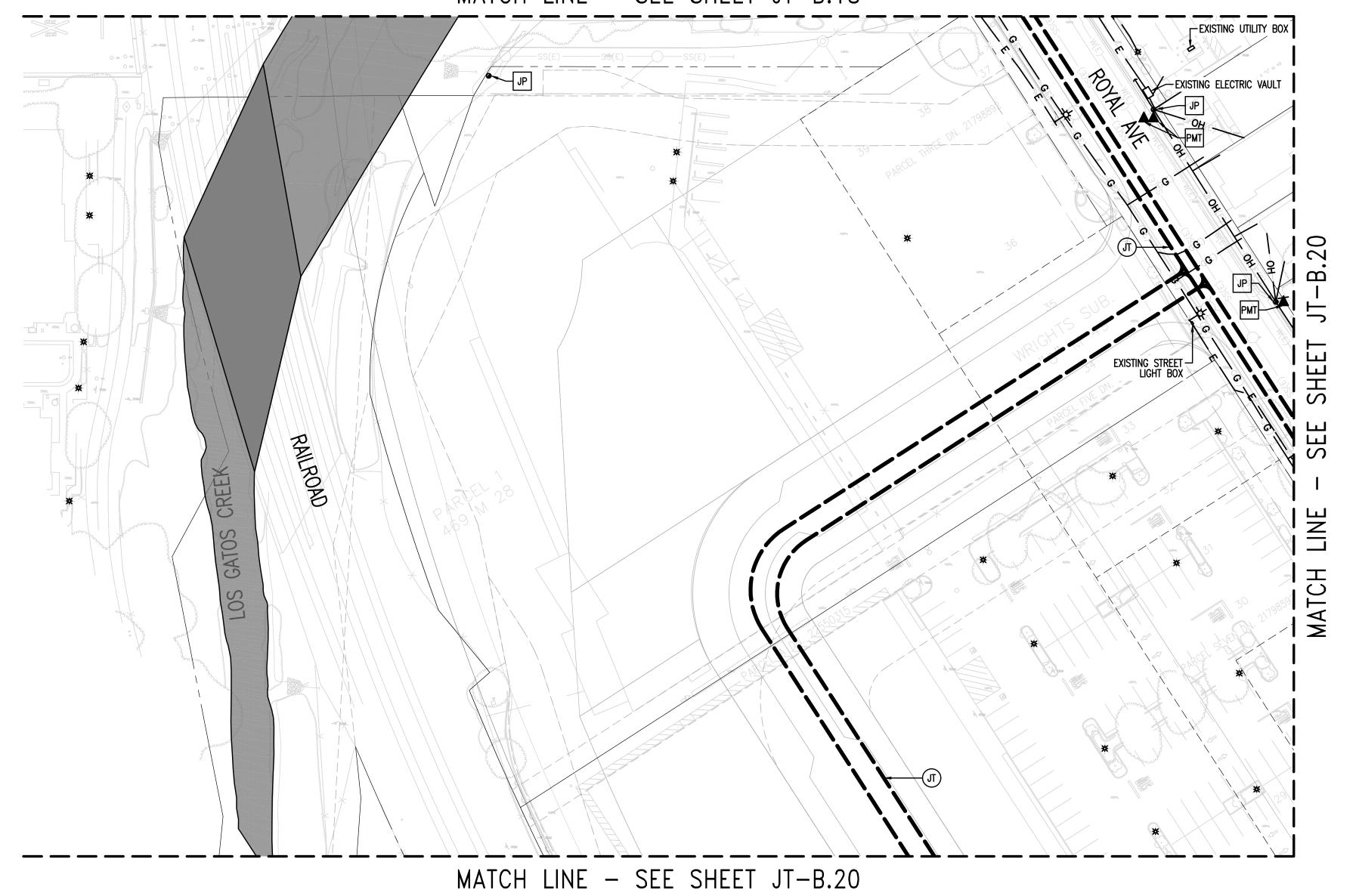
NOTE FOR UNDERGROUND ELECTRIC INSTALLATION: USE OF PVC DB-120 IS NO LONGER APPROVED BY PG&E FOR <u>ANY</u> CONDUIT SIZES, BENDS, AND FITTINGS. RIGID PVC SCHEDULE 40 MUST BE USED IN PLACE OF PVC DB-120 CONDUIT. FOR ALL APPROVED CONDUITS, BENDS, AND FITTINGS, SEE







MATCH LINE - SEE SHEET JT-B.18



NOTE TO COMCAST:
PLEASE CONFIRM WHO WILL PROVIDE CONDUIT AND VAULTS. DEVELOPER TO PROVIDE TRENCH.

REFER TO PG&E UTILITY BULLETIN <u>TD-7001B-005</u> DOCUMENT FOR SMART METER ANTENNA CONSTRUCTION REQUIREMENTS.

SUBSTRUCTURE LOCATIONS MUST BE STAKED BY A LICENSED SURVEYOR PRIOR TO CONSTRUCTION. SEE CONSTRUCTION NOTES ON JOINT TRENCH TITLE SHEET (JT-B.1) REGARDING EXISTING CONDITIONS.

PG&E FOR <u>ANY</u> CONDUIT SIZES, BENDS, AND FITTINGS. RIGID PVC SCHEDULE 40 MUST BE USED IN PLACE OF PVC DB-120 CONDUIT. FOR ALL APPROVED CONDUITS, BENDS, AND FITTINGS, SEE PG&E BULLETIN TD-062288-B006.

NOTE TO CONTRACTOR:

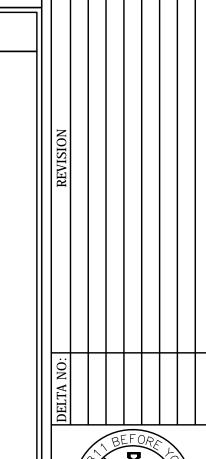
FOR CONTRACTOR'S WORK RESPONSIBILITY, REFER TO JOINT TRENCH TITLE SHEET (JT-B.1)

LEGEND: **DESCRIPTION** JOINT TRENCH — OH — OVERHEAD LINES JOINT POLE POLE-MOUNTED TRANSFORMER STREET LIGHT TRAFFIC SIGNAL LIGHT OH EXISTING OVERHEAD LINE TO BE REMOVED E EXISTING ELECTRIC LINE TO BE REMOVED/RELOCATED EXISTING GAS LINE TO BE REMOVED/RELOCATED EXISTING PHONE LINE TO BE REMOVED/RELOCATED FO EXISTING FIBER OPTIC LINE TO BE REMOVED/RELOCATED EXISTING JOINT POLE TO BE REMOVED

SHEET INDEX MAP N. T. S.

JOINT TRENCH TITLE SHEET

EXISTING POLE-MOUNTED TRANSFORMER TO BE REMOVED



PROJECT NUMBER: 20-1072

1'' = 40'PROJECT MANAGER:
SCOTT HARDESTER

HENRY NGUYEN CRAIG BURTON

03-19-2021 DRAWING NUMBER:

JT-B.19
SHEET: 19 OF: 20

NOTE FOR UNDERGROUND ELECTRIC INSTALLATION: USE OF PVC DB-120 IS NO LONGER APPROVED BY

NOTE TO CONTRACTOR: UTILITIES FOR CONTRACTOR'S WORK RESPONSIBILITY, -PRELIMINARY-NOT FOR CONSTRUCTION REFER TO JOINT TRENCH TITLE SHEET (JT-B.1) THIS IS NOT A BID DOCUMENT LEGEND: THIS DRAWING HAS NOT YET BEEN REVIEWED BY UTILITY COMPANIES AND IS SUBJECT TO CHANGE. **DESCRIPTION** — OH — OVERHEAD LINES JOINT POLE POLE-MOUNTED TRANSFORMER STREET LIGHT TRAFFIC SIGNAL LIGHT E EXISTING ELECTRIC LINE TO BE REMOVED/RELOCATED EXISTING GAS LINE TO BE REMOVED/RELOCATED $\dot{\mathbf{a}}$ FO EXISTING FIBER OPTIC LINE TO BE REMOVED/RELOCATED EXISTING JOINT POLE TO BE REMOVED G ATT E EXISTING POLE-MOUNTED TRANSFORMER TO BE REMOVED LINE MATCH EXISTING STREET
LIGHT BOX
EXISTING AT&T VAULT MATCH LINE - SEE SHEET JT-B.19 -EXISTING ELECTRIC VAULT EXISTING ELECTRIC VAULT NEW TRENCH WITHIN 3' OF SSWR LINE. FURTHER COORDINATION REQUIRED. EXISTING COMM BOX PROJECT NUMBER: 20-1072 SHEET INDEX MAP N. T. S. NOTE TO COMCAST: 1'' = 40'PLEASE CONFIRM WHO WILL PROVIDE CONDUIT AND PROJECT MANAGER: VAULTS. DEVELOPER TO PROVIDE TRENCH. SCOTT HARDESTER REFER TO PG&E UTILITY BULLETIN <u>TD-7001B-005</u> DOCUMENT FOR SMART METER ANTENNA HENRY NGUYEN NOTE FOR UNDERGROUND ELECTRIC INSTALLATION: USE OF PVC DB-120 IS NO LONGER APPROVED BY JOINT TRENCH TITLE SHEET CONSTRUCTION REQUIREMENTS. OVERALL CRAIG BURTON PG&E FOR <u>ANY</u> CONDUIT SIZES, BENDS, AND FITTINGS. RIGID PVC SCHEDULE 40 MUST BE USED IN PLACE OF PVC DB-120 CONDUIT. FOR ALL JT-B.3 THRU B.20 JOINT TRENCH INTENT SUBSTRUCTURE LOCATIONS MUST BE STAKED BY A 03-19-2021 LICENSED SURVEYOR PRIOR TO CONSTRUCTION. DRAWING NUMBER: SEE CONSTRUCTION NOTES ON JOINT TRENCH TITLE APPROVED CONDUITS, BENDS, AND FITTINGS, SEE JT-B.20 SHEET: 20 OF: 20 SHEET (JT-B.1) REGARDING EXISTING CONDITIONS. PG&E BULLETIN TD-062288-B006.